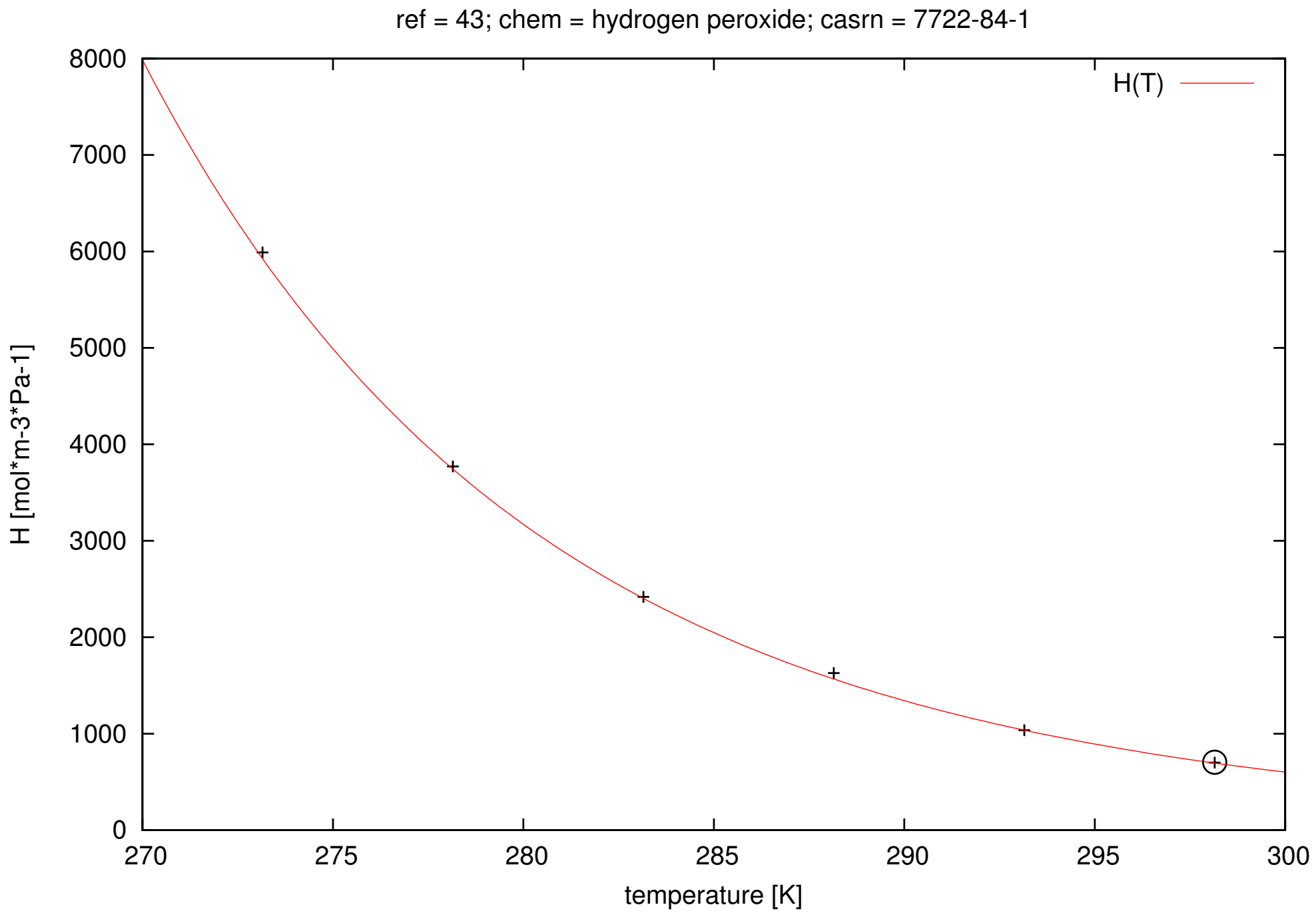
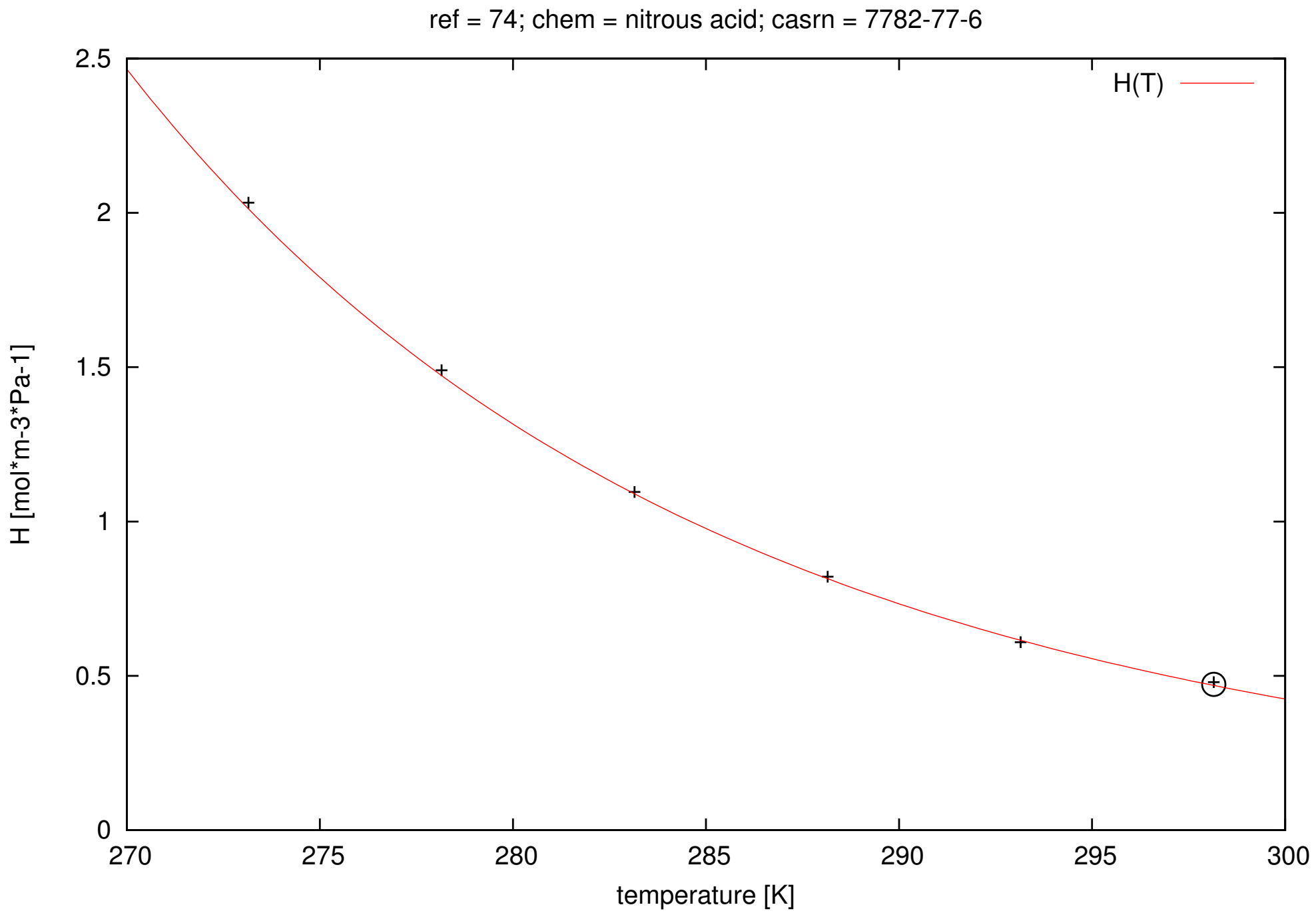
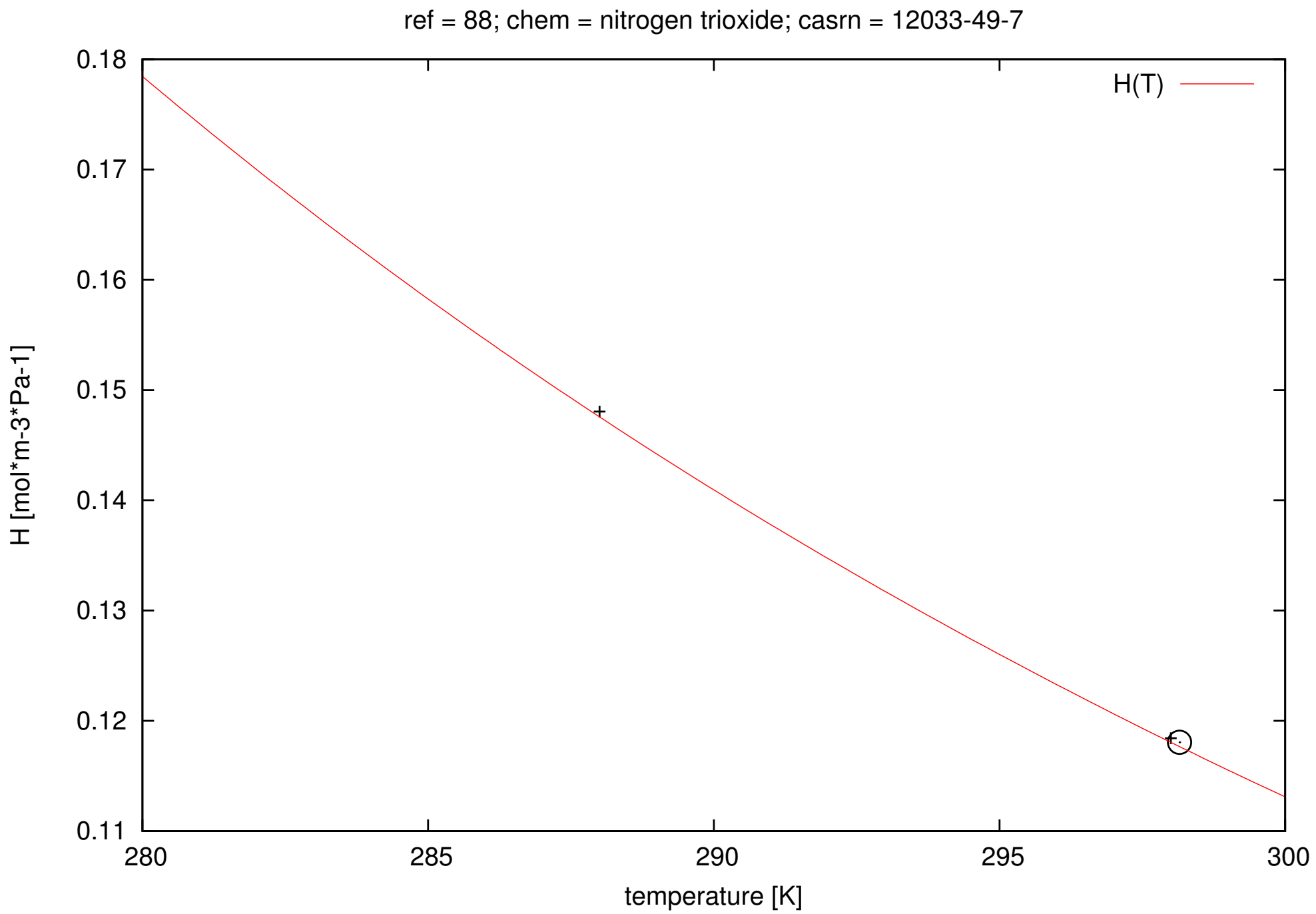
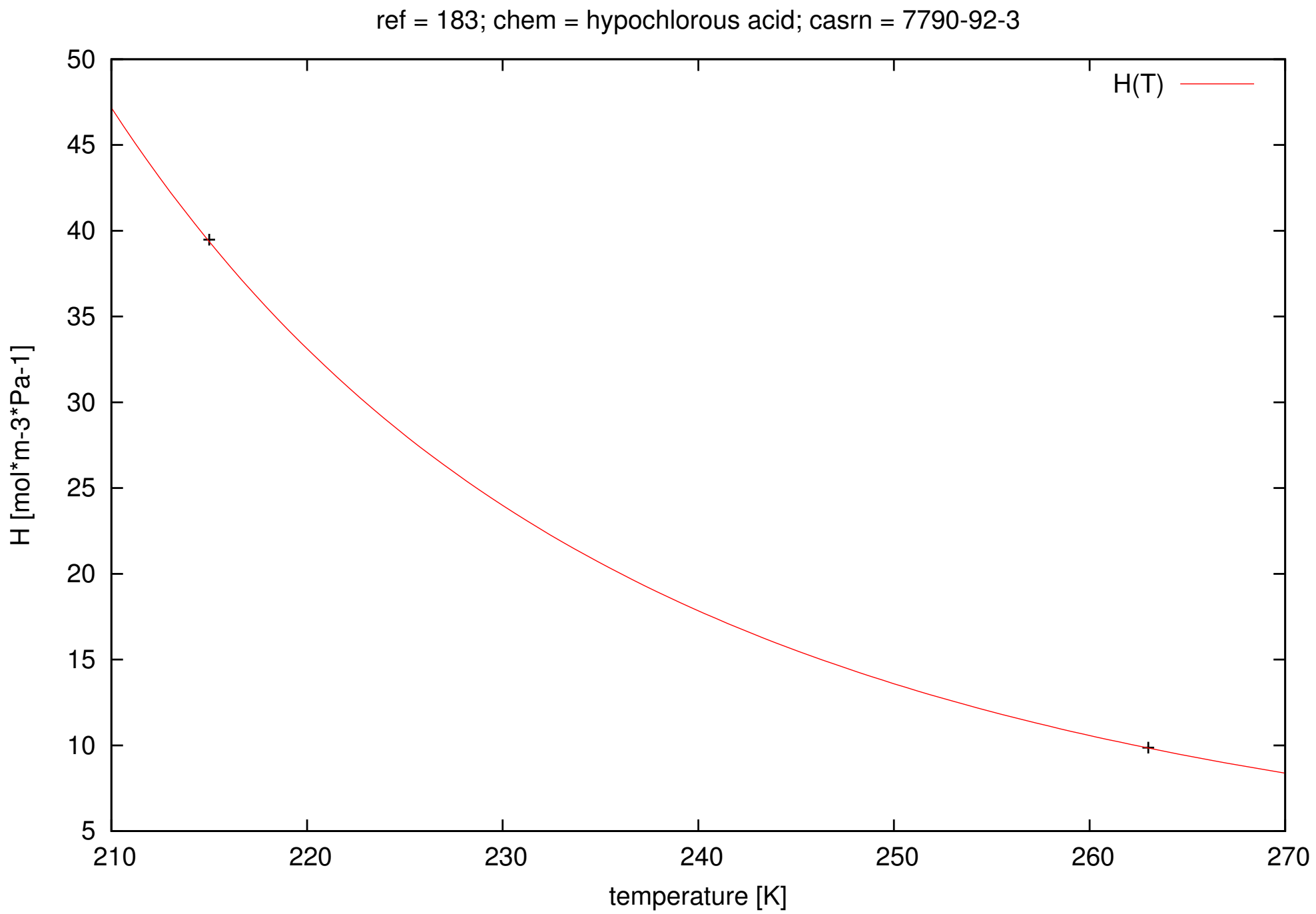
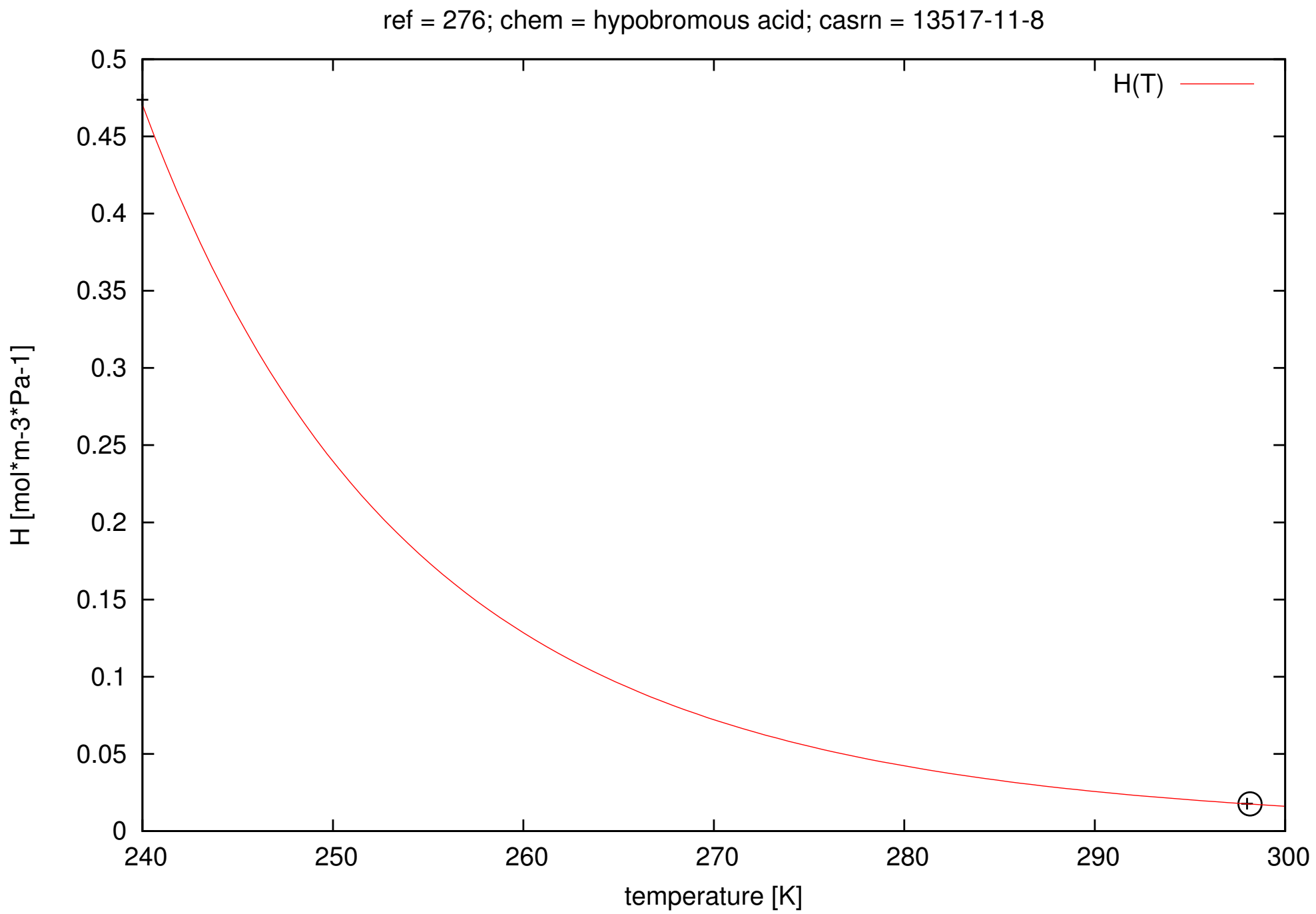
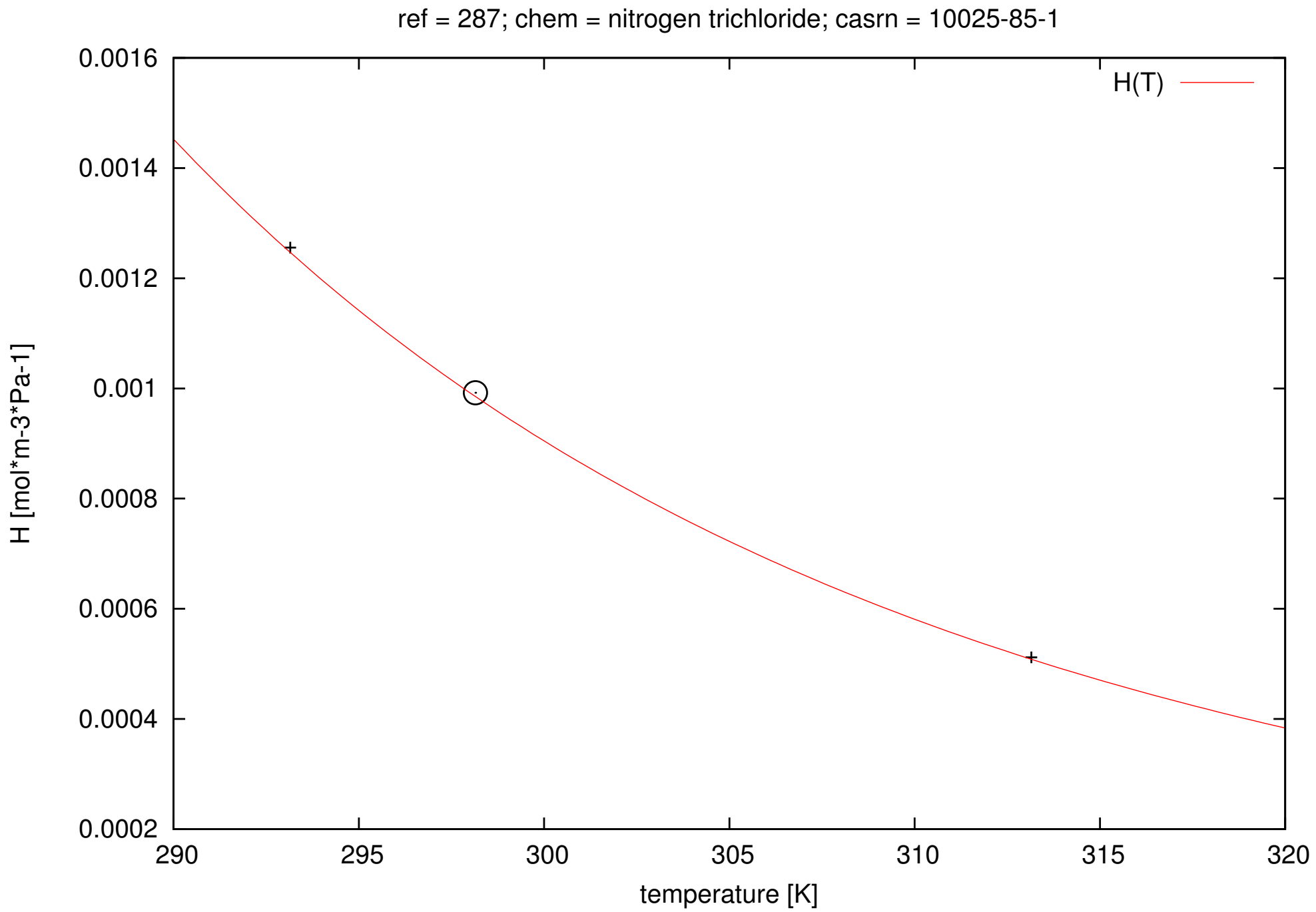

ref = 43; chem = hydrogen peroxide; casrn = 7722-84-1
H(T)
H [mol*m-3*Pa-1]
temperature [K]
8000
7000
6000
5000
4000
3000
2000
1000
0
270
275
280
285
290
295
300

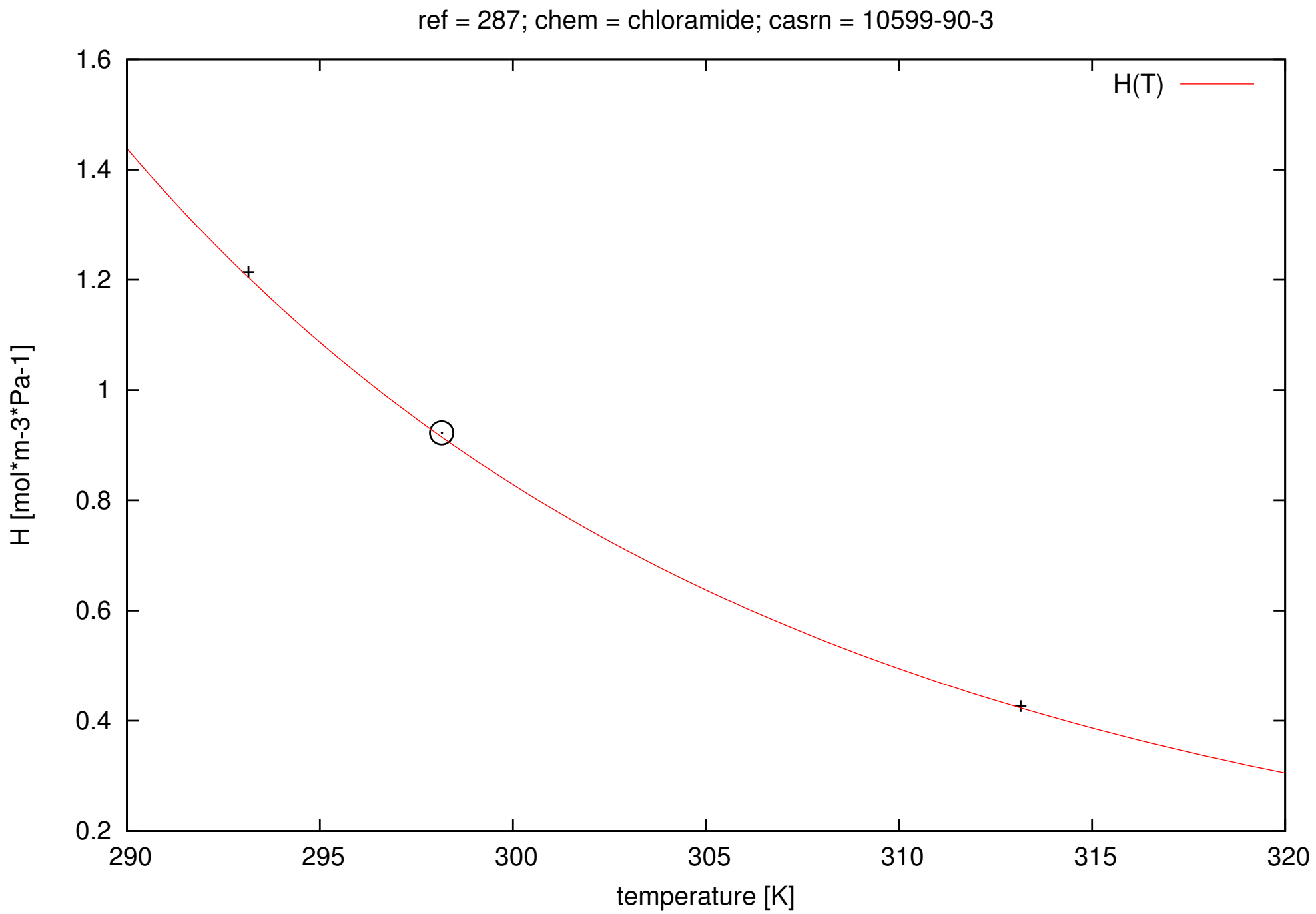

ref = 74; chem = nitrous acid; casrn = 7782-77-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
2.5
2
1.5
1
0.5
0
270
275
280
285
290
295
300

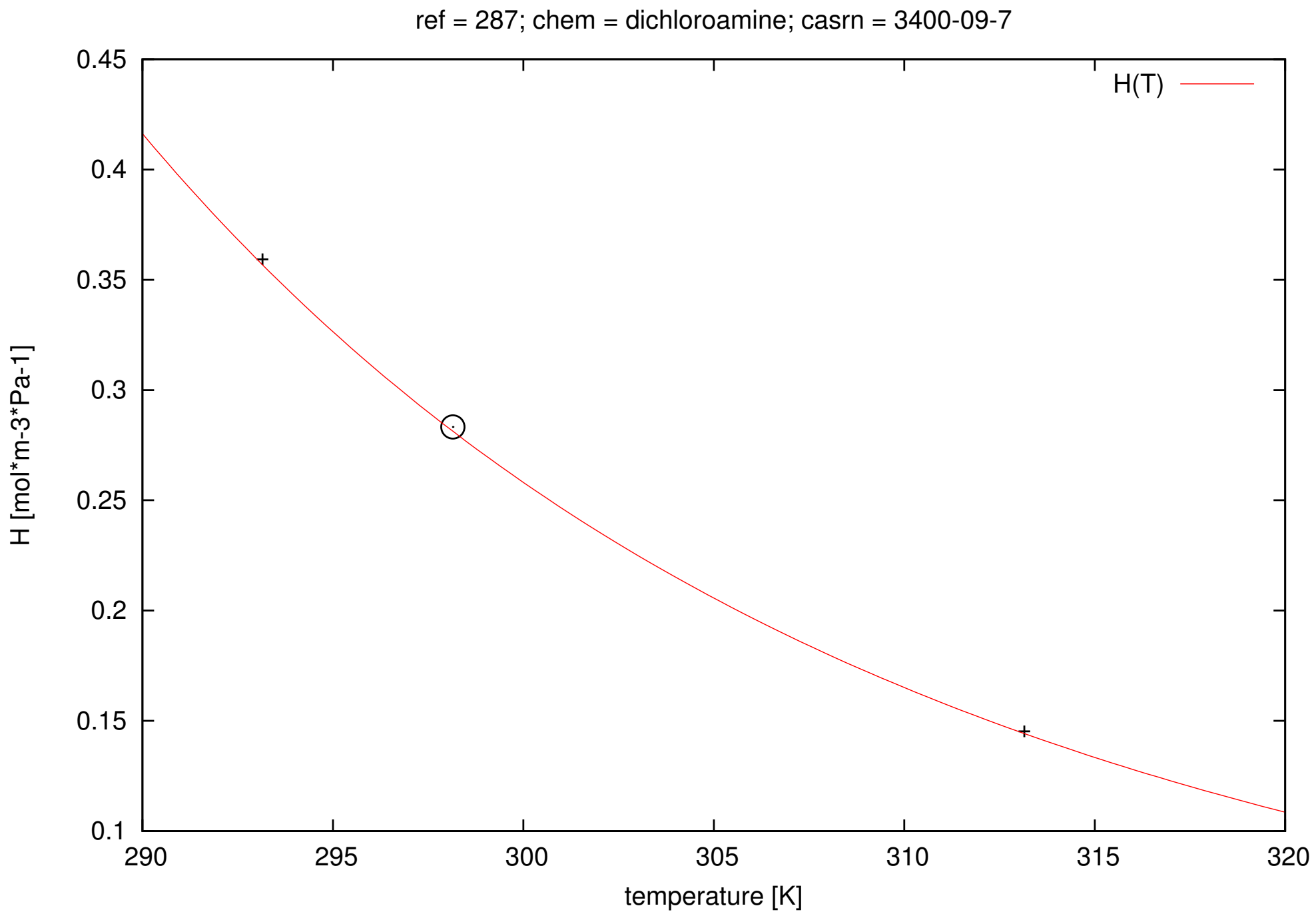

ref = 88; chem = nitrogen trioxide; casrn = 12033-49-7
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.18
0.17
0.16
0.15
0.14
0.13
0.12
0.11
280
285
290
295
300

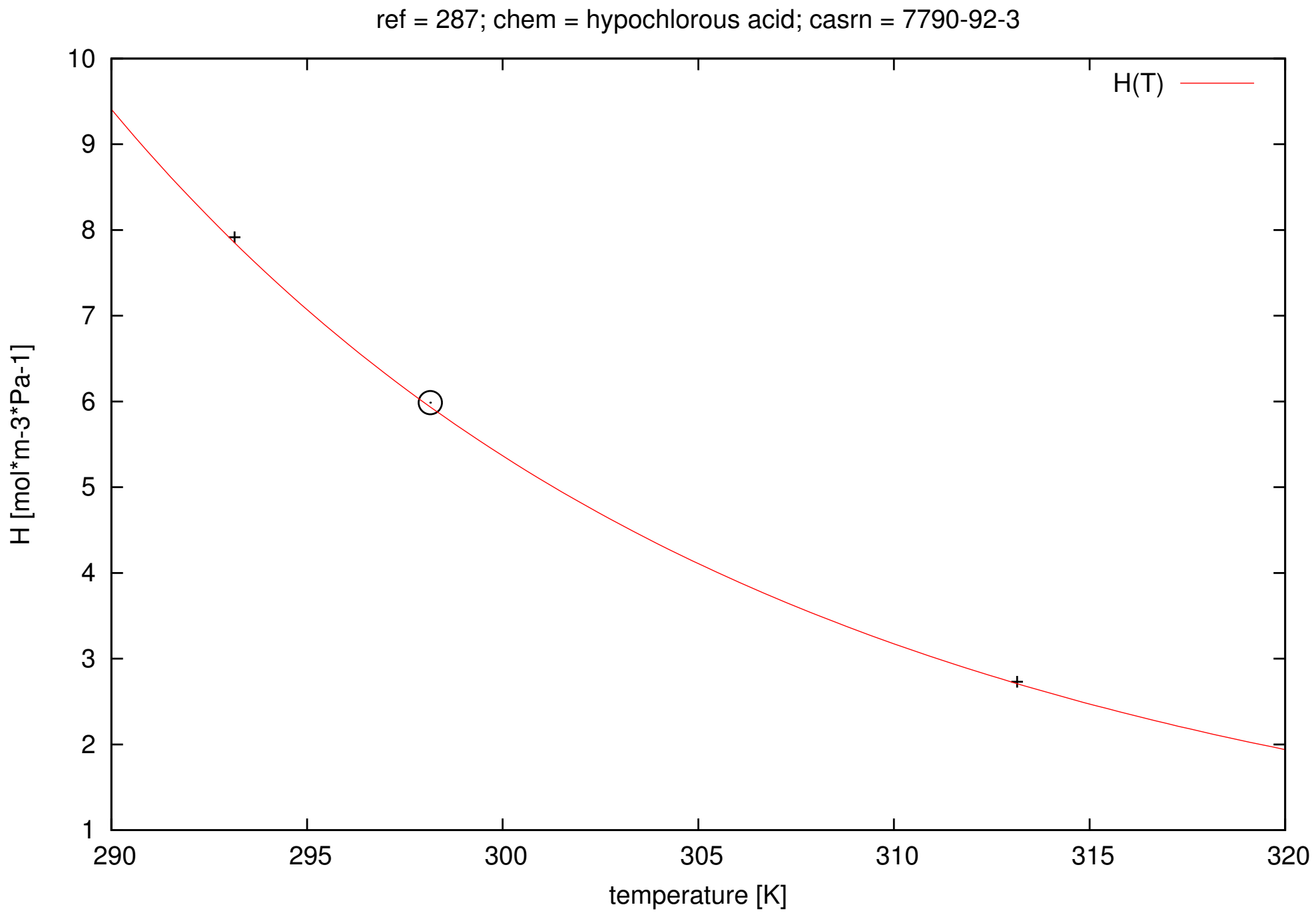

ref = 183; chem = hypochlorous acid; casrn = 7790-92-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
50
45
40
35
30
25
20
15
10
5
210
220
230
240
250
260
270

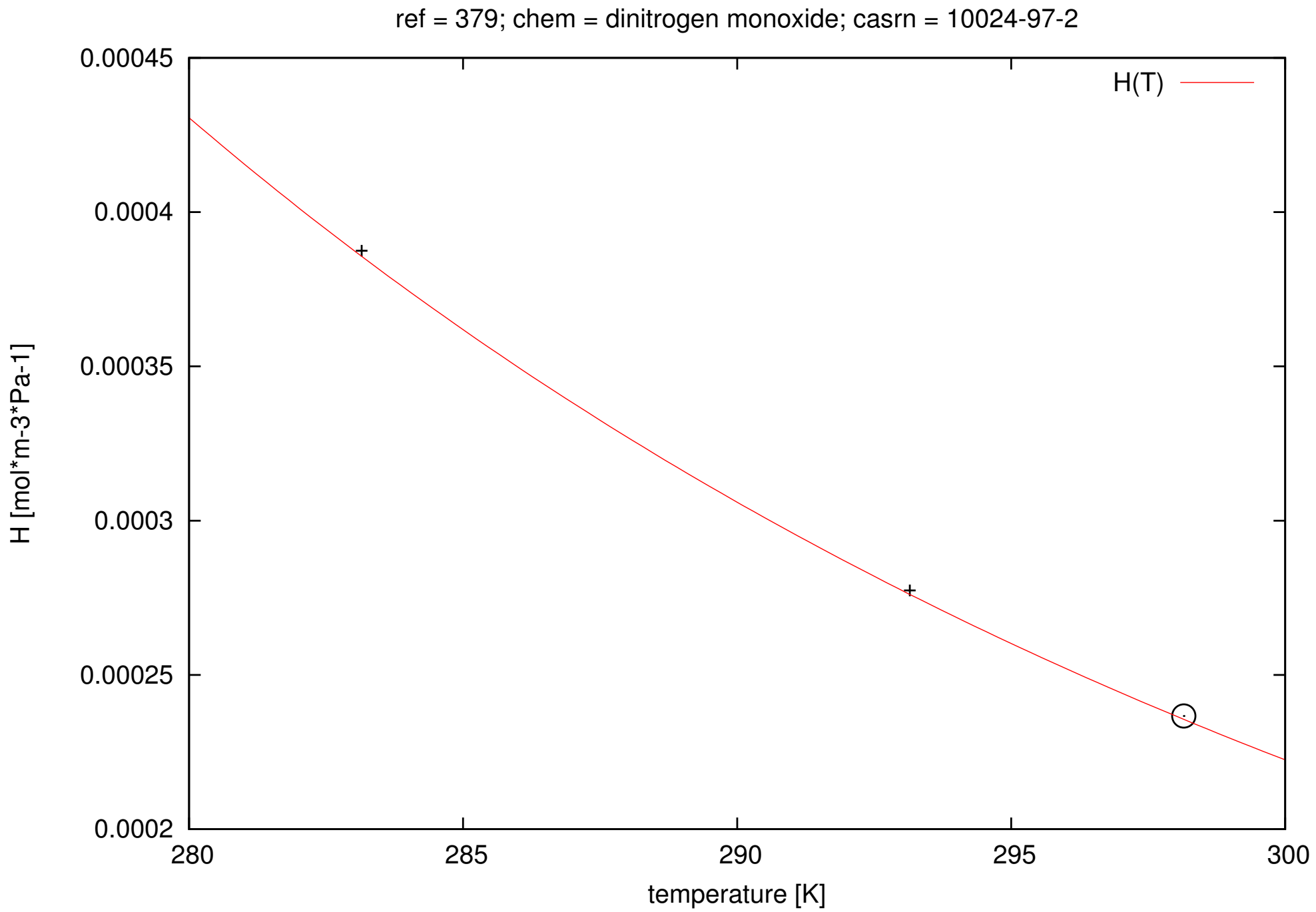

ref = 276; chem = hypobromous acid; casrn = 13517-11-8
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
240
250
260
270
280
290
300

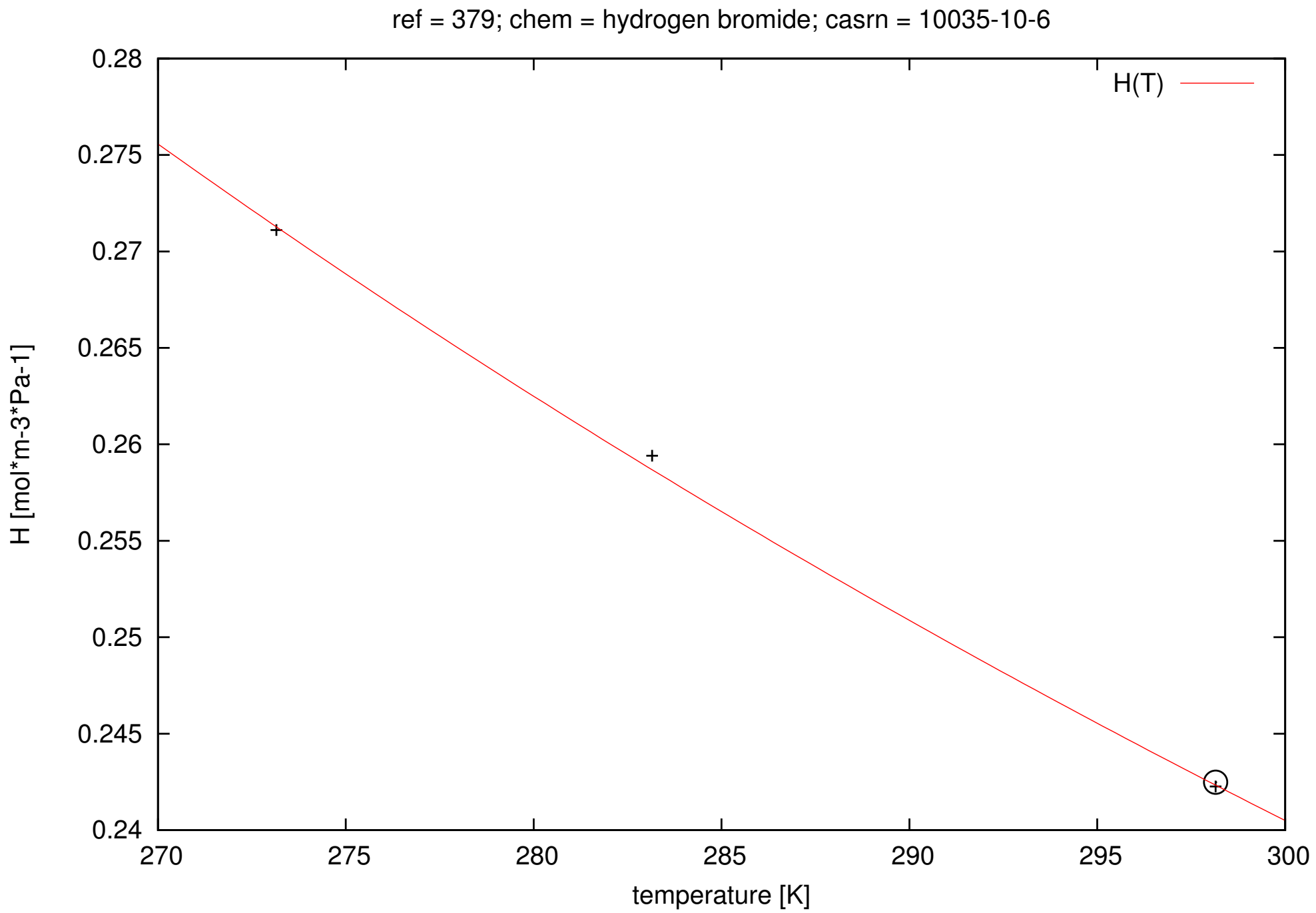

ref = 287; chem = nitrogen trichloride; casrn = 10025-85-1
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
290
295
300
305
310
315
320

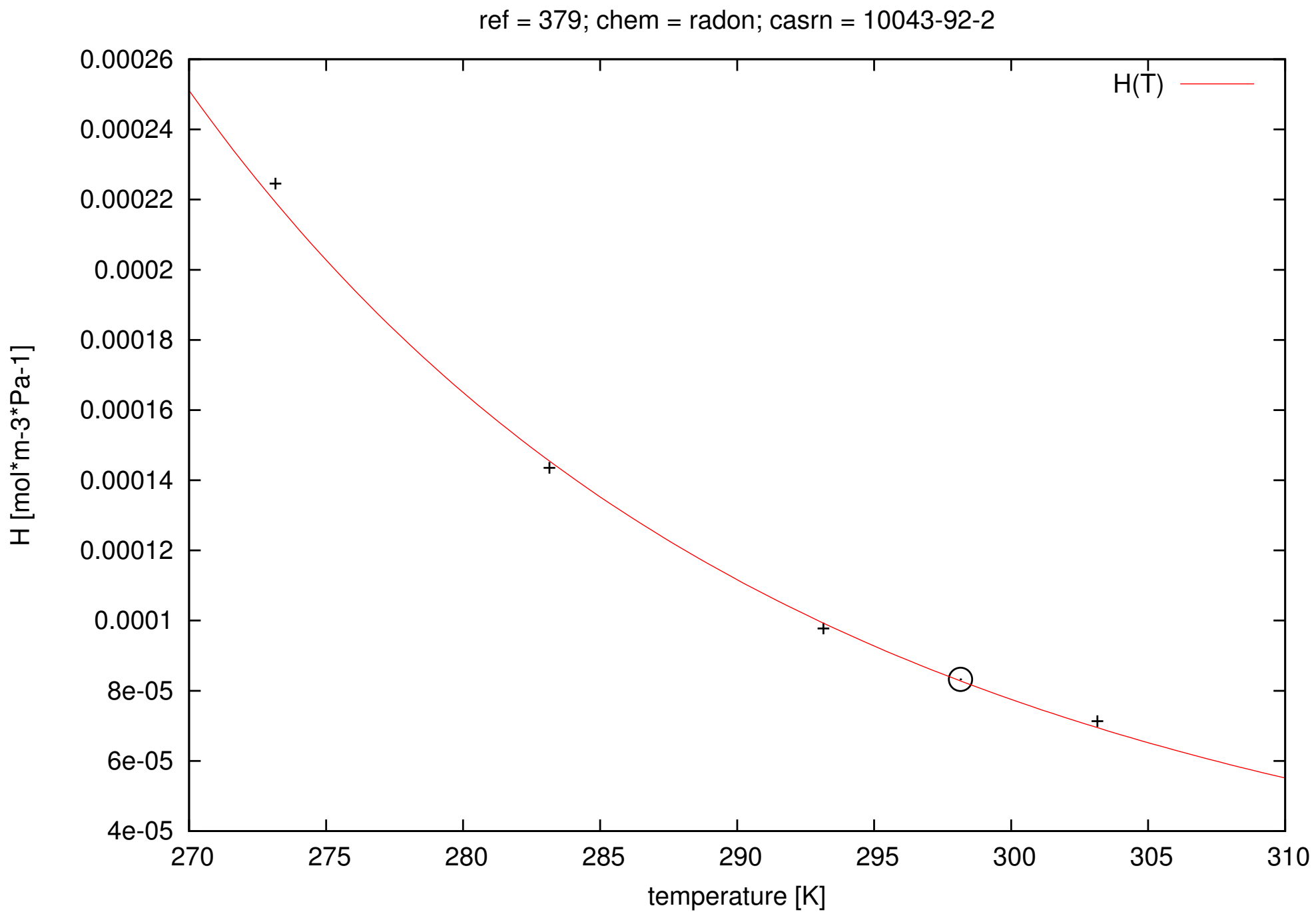

ref = 287; chem = chloramide; casrn = 10599-90-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
290
295
300
305
310
315
320

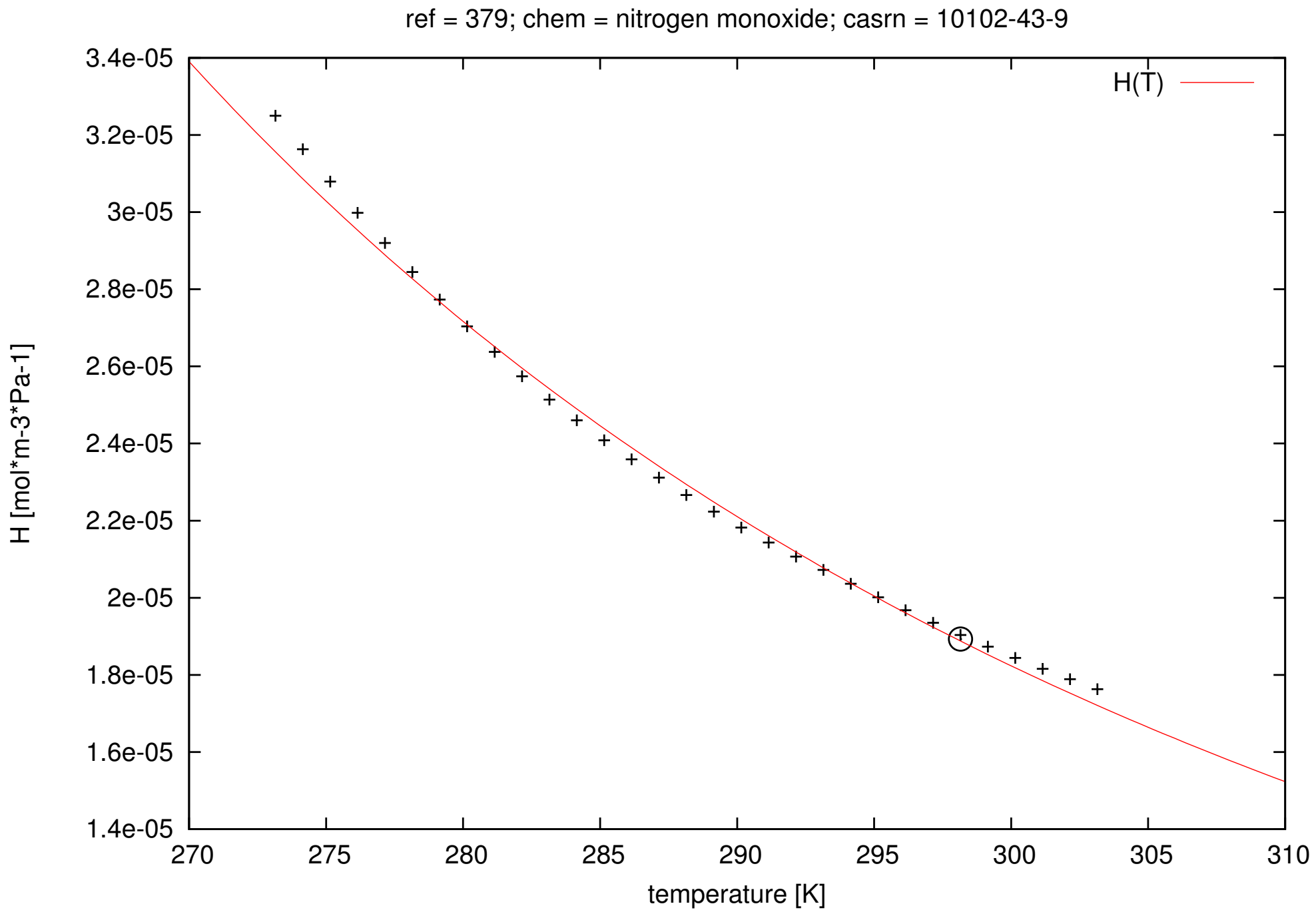

ref = 287; chem = dichloroamine; casrn = 3400-09-7
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
290
295
300
305
310
315
320

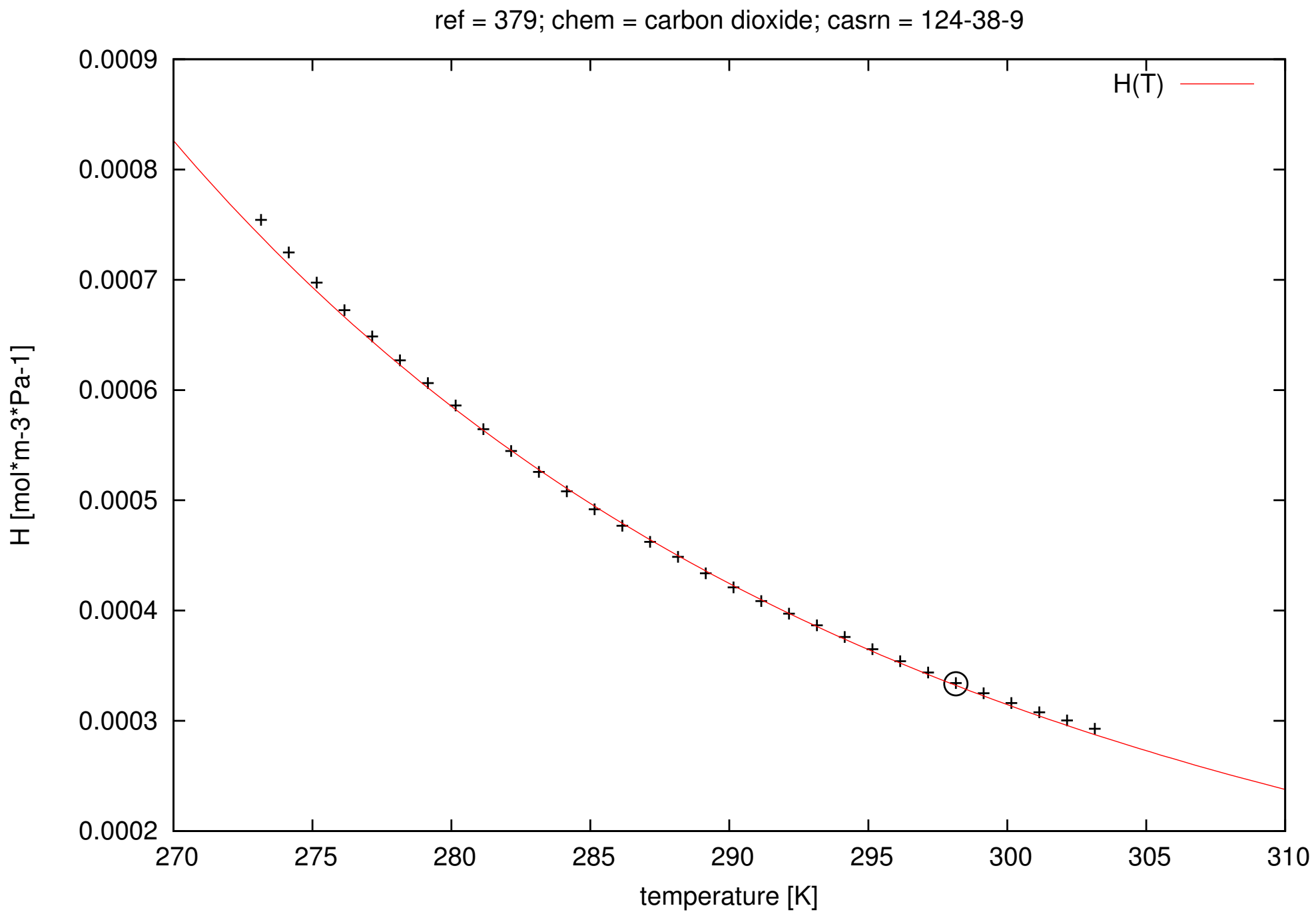

ref = 287; chem = hypochlorous acid; casrn = 7790-92-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
10
9
8
7
6
5
4
3
2
1
290
295
300
305
310
315
320

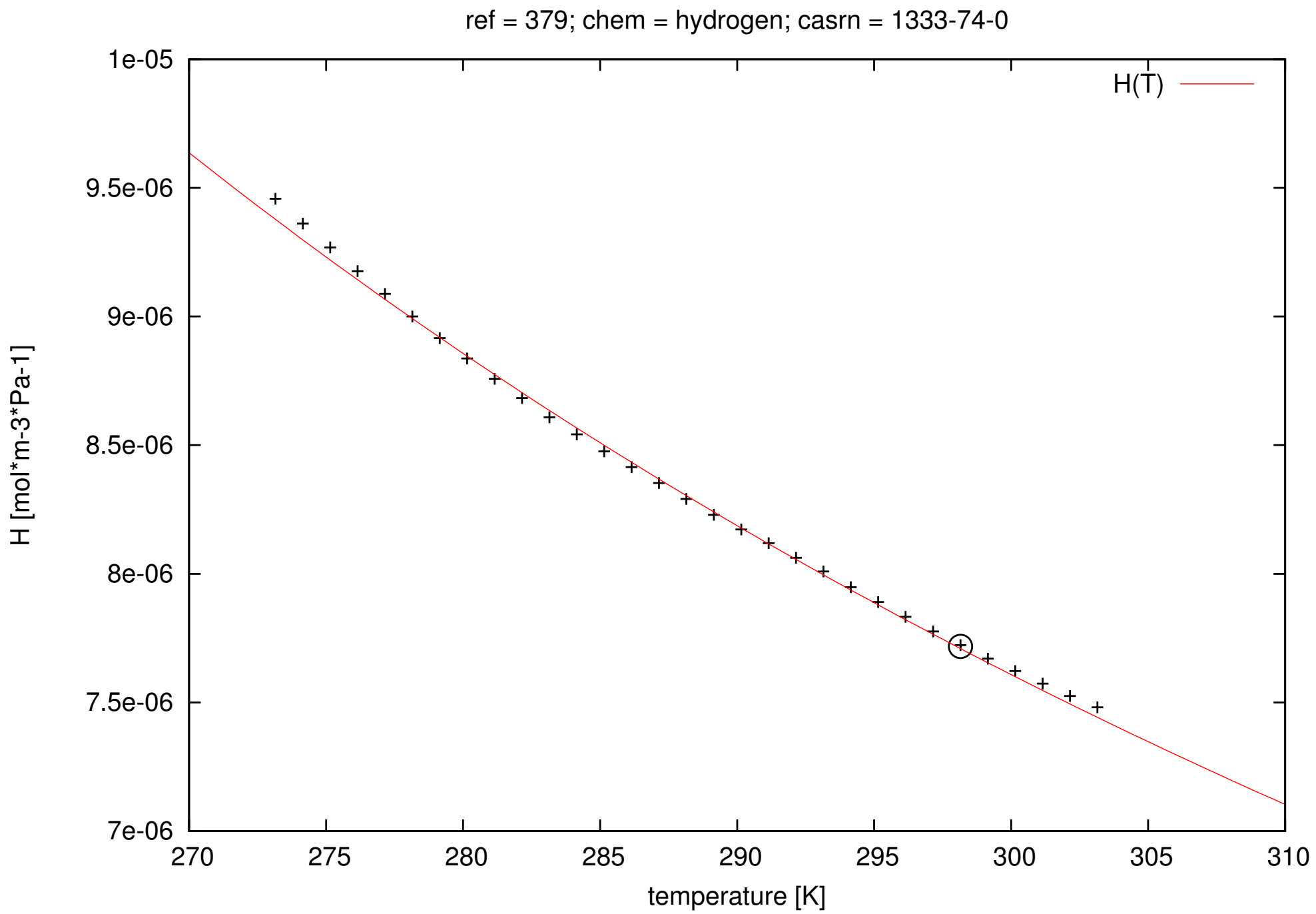

ref = 379; chem = dinitrogen monoxide; casrn = 10024-97-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.00045
0.0004
0.00035
0.0003
0.00025
0.0002
280
285
290
295
300

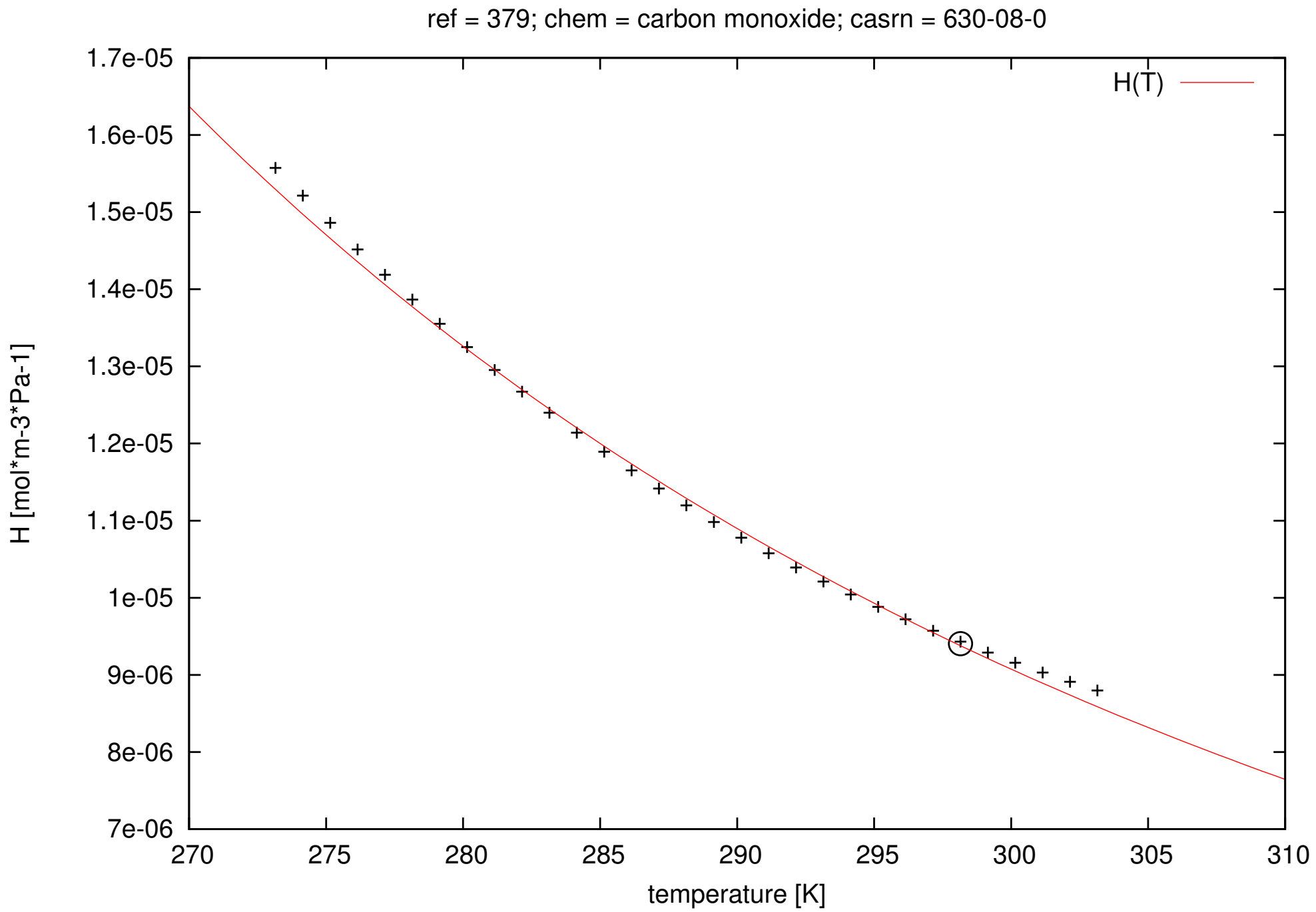

ref = 379; chem = hydrogen bromide; casrn = 10035-10-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.28
0.275
0.27
0.265
0.26
0.255
0.25
0.245
0.24
270
275
280
285
290
295
300

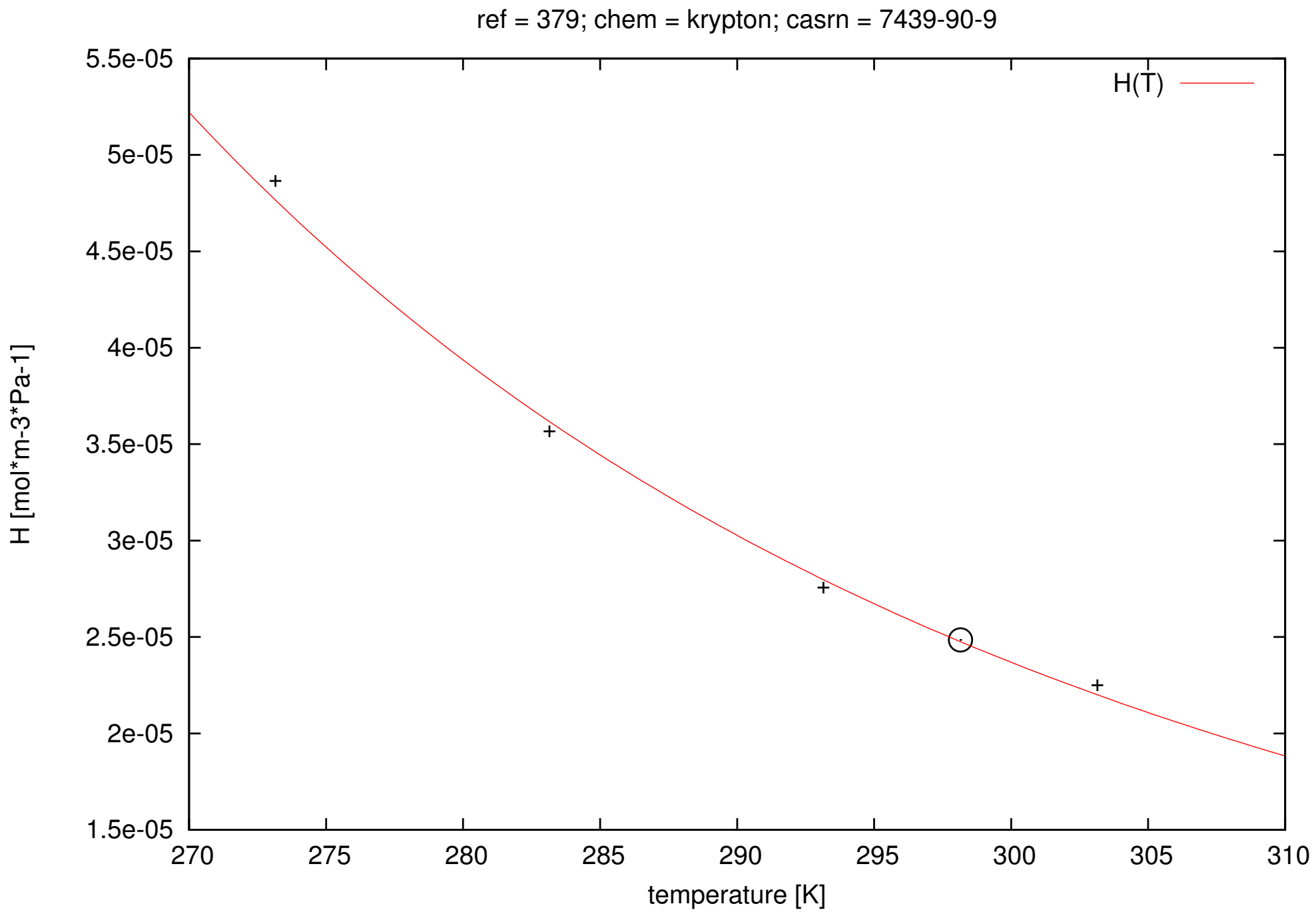

ref = 379; chem = radon; casrn = 10043-92-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.00026
0.00024
0.00022
0.0002
0.00018
0.00016
0.00014
0.00012
0.0001
8e-05
6e-05
4e-05
270
275
280
285
290
295
300
305
310

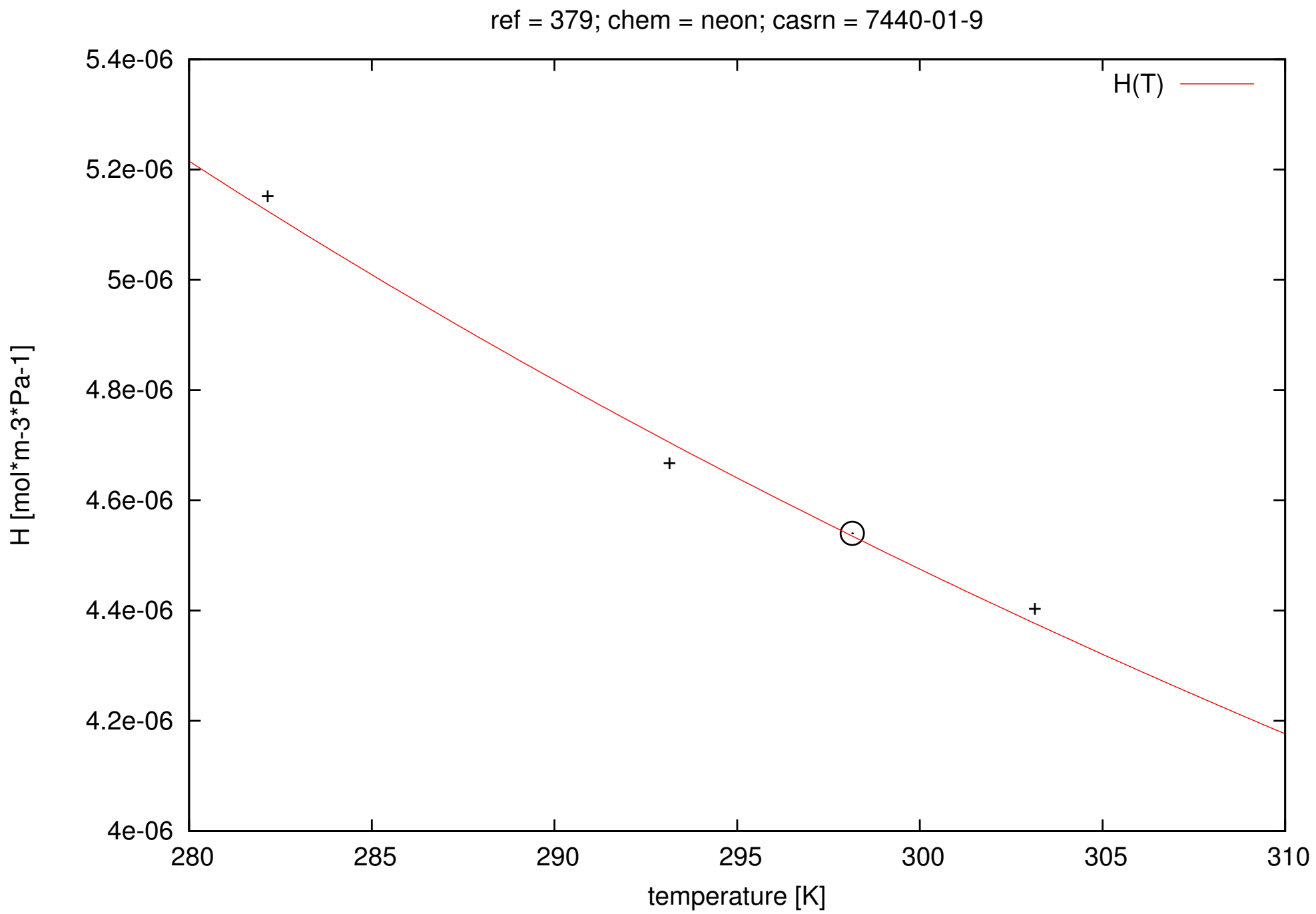

ref = 379; chem = nitrogen monoxide; casrn = 10102-43-9
H(T)
H [mol*m-3*Pa-1]
temperature [K]
3.4e-05
3.2e-05
3e-05
2.8e-05
2.6e-05
2.4e-05
2.2e-05
2e-05
1.8e-05
1.6e-05
1.4e-05
270
275
280
285
290
295
300
305
310

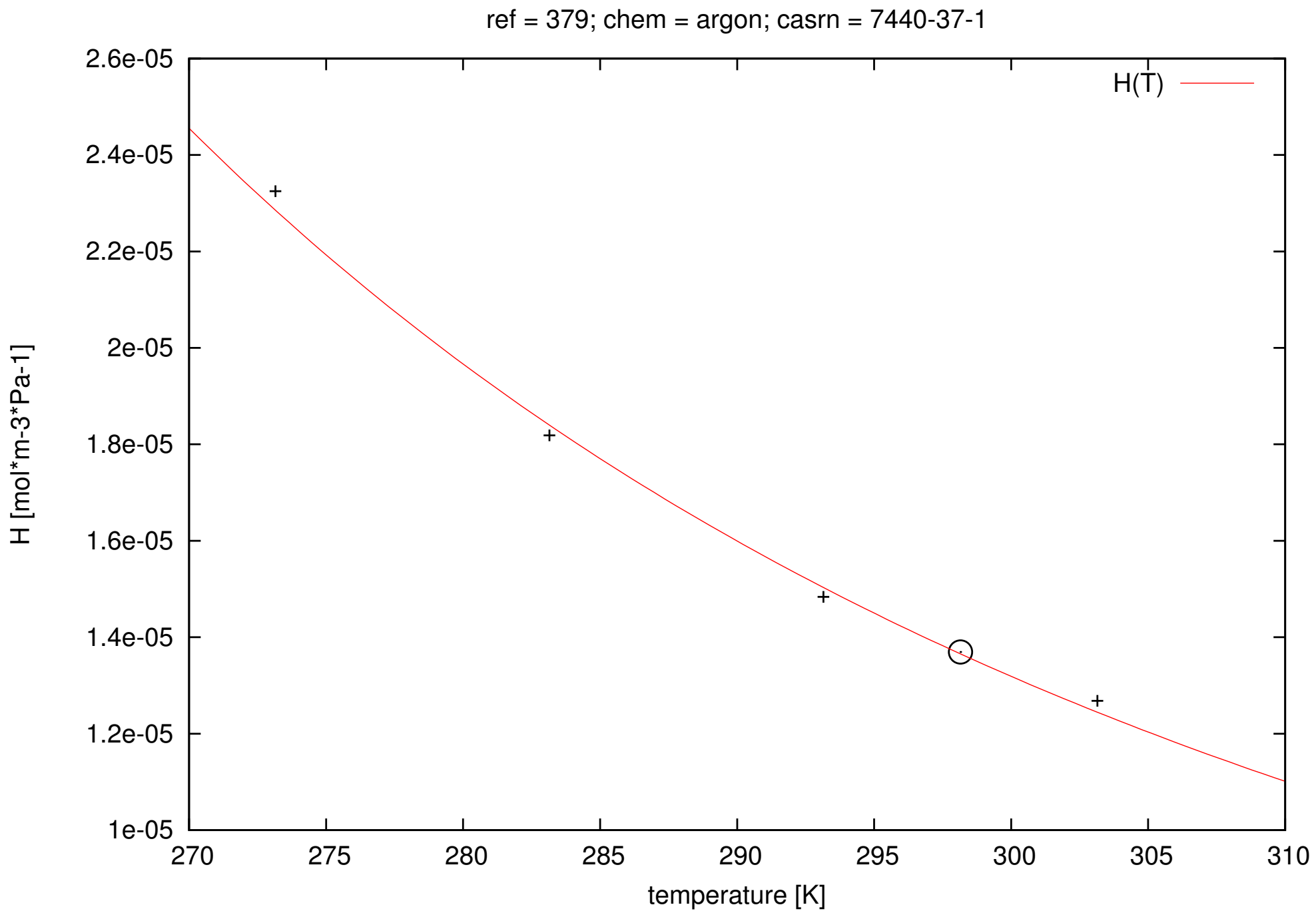

ref = 379; chem = carbon dioxide; casrn = 124-38-9
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
270
275
280
285
290
295
300
305
310

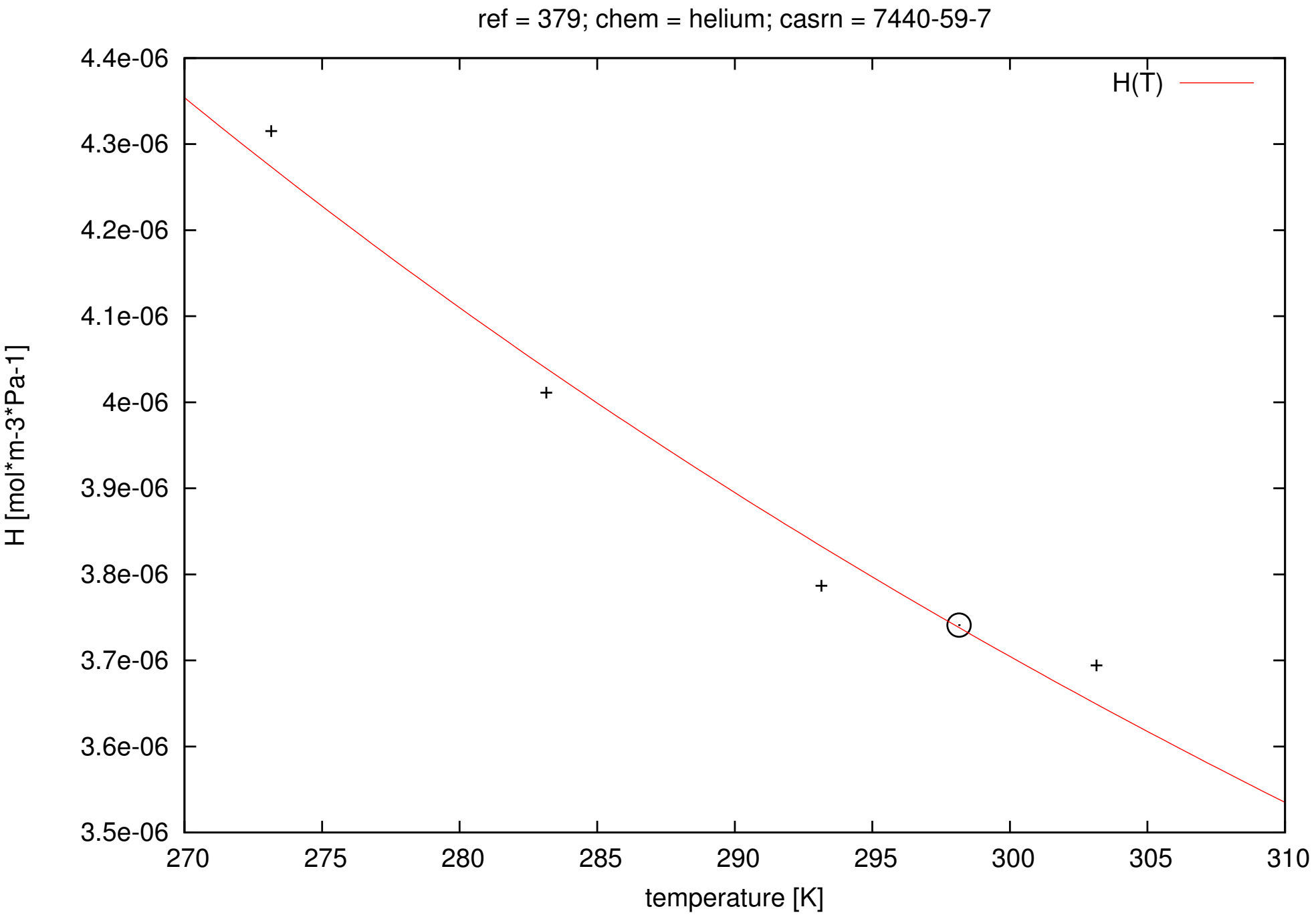

ref = 379; chem = hydrogen; casrn = 1333-74-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
1e-05
9.5e-06
9e-06
8.5e-06
8e-06
7.5e-06
7e-06
270
275
280
285
290
295
300
305
310

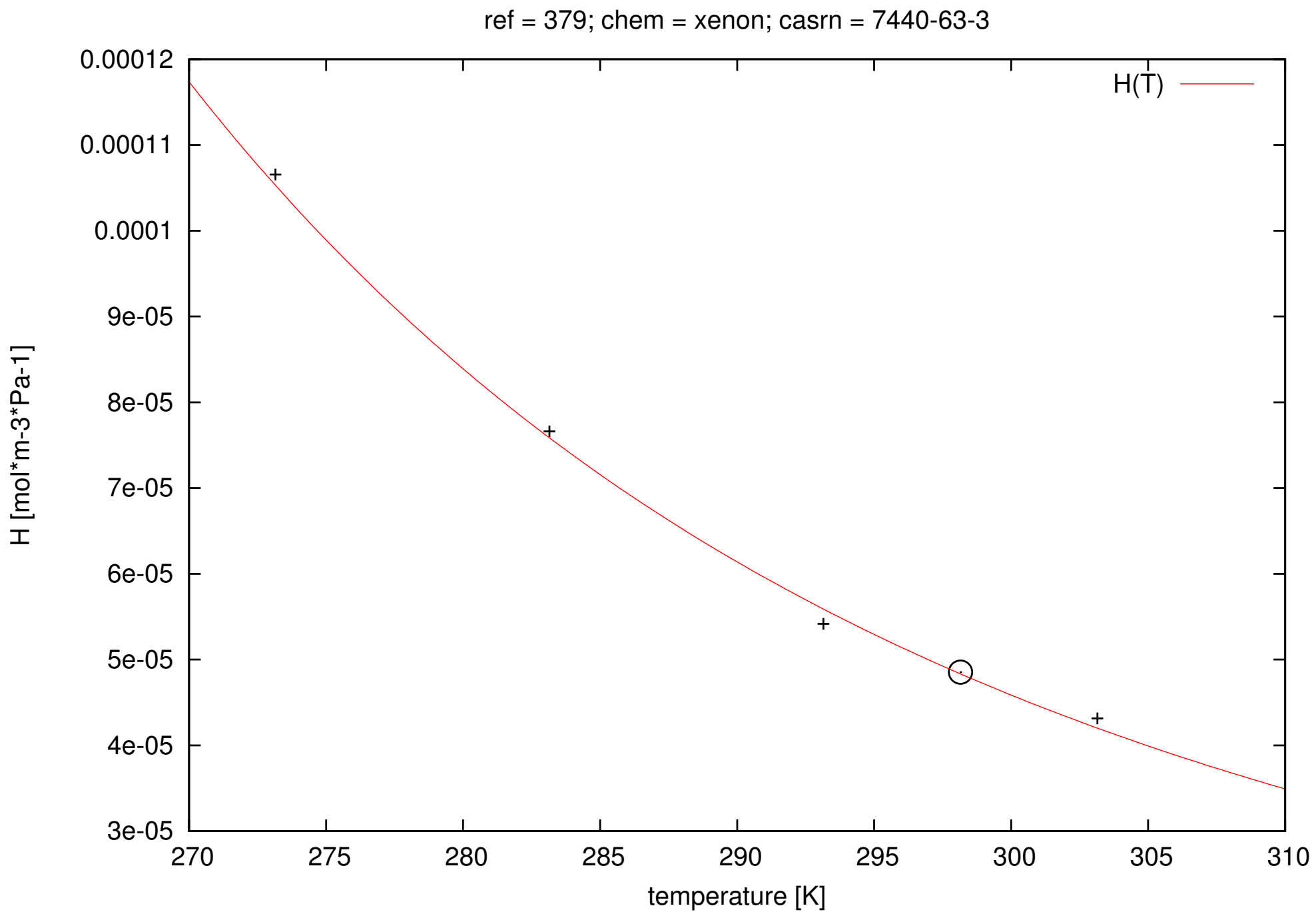

ref = 379; chem = carbon monoxide; casrn = 630-08-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
1.7e-05
1.6e-05
1.5e-05
1.4e-05
1.3e-05
1.2e-05
1.1e-05
1e-05
9e-06
8e-06
7e-06
270
275
280
285
290
295
300
305
310

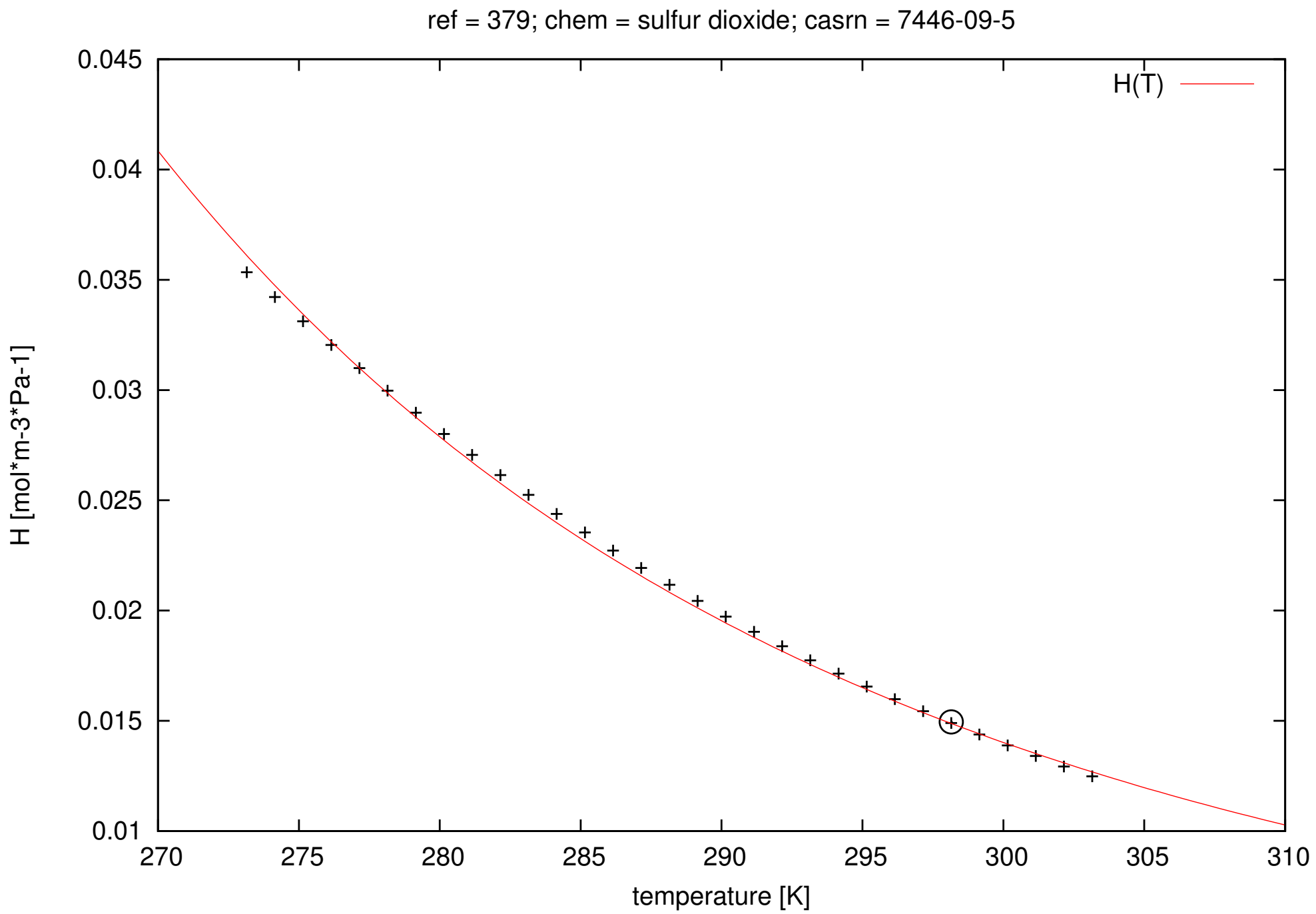

ref = 379; chem = krypton; casrn = 7439-90-9
H(T)
H [mol*m-3*Pa-1]
temperature [K]
5.5e-05
5e-05
4.5e-05
4e-05
3.5e-05
3e-05
2.5e-05
2e-05
1.5e-05
270
275
280
285
290
295
300
305
310

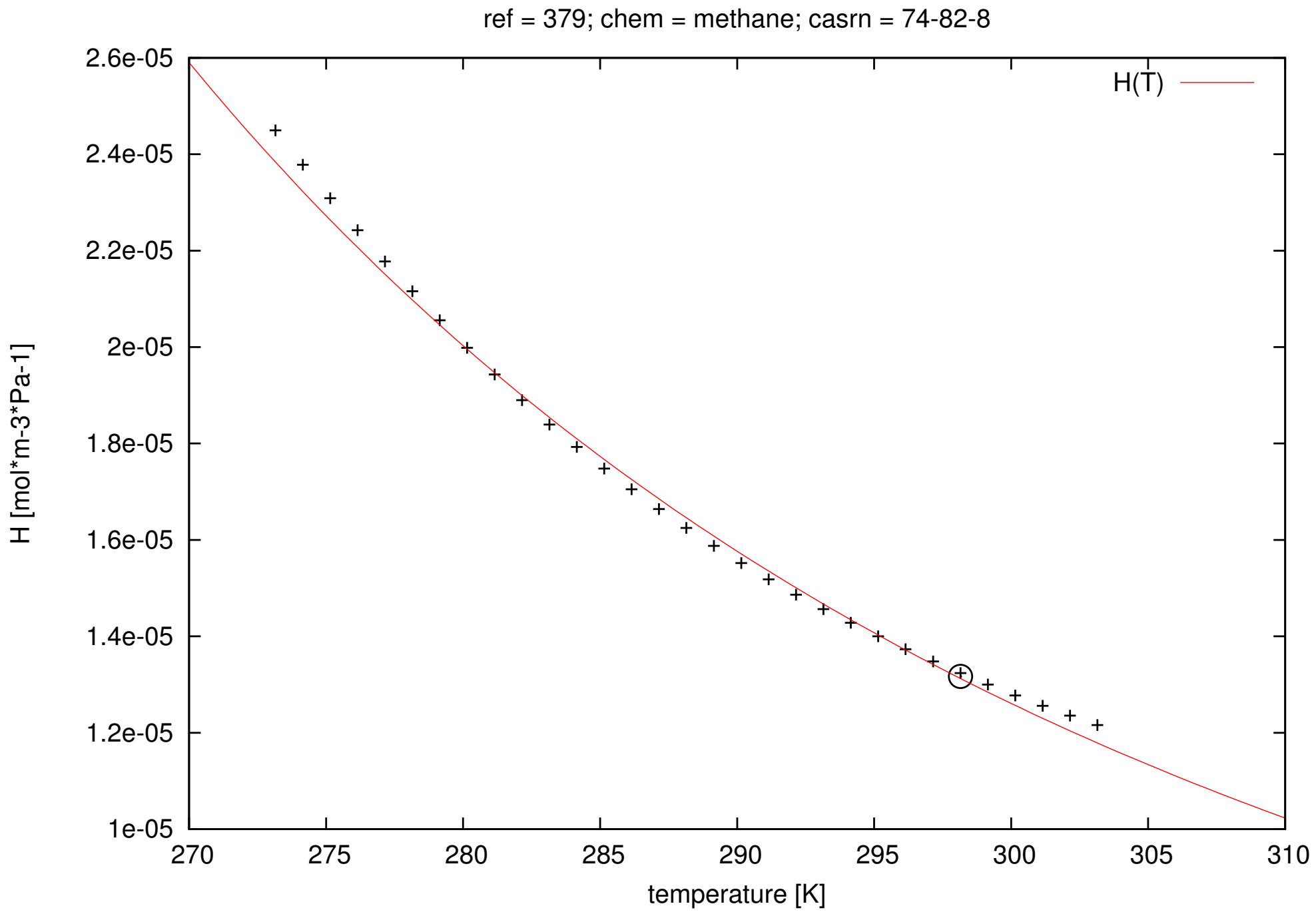

ref = 379; chem = neon; casrn = 7440-01-9
H(T)
H [mol*m-3*Pa-1]
temperature [K]
5.4e-06
5.2e-06
5e-06
4.8e-06
4.6e-06
4.4e-06
4.2e-06
4e-06
280
285
290
295
300
305
310

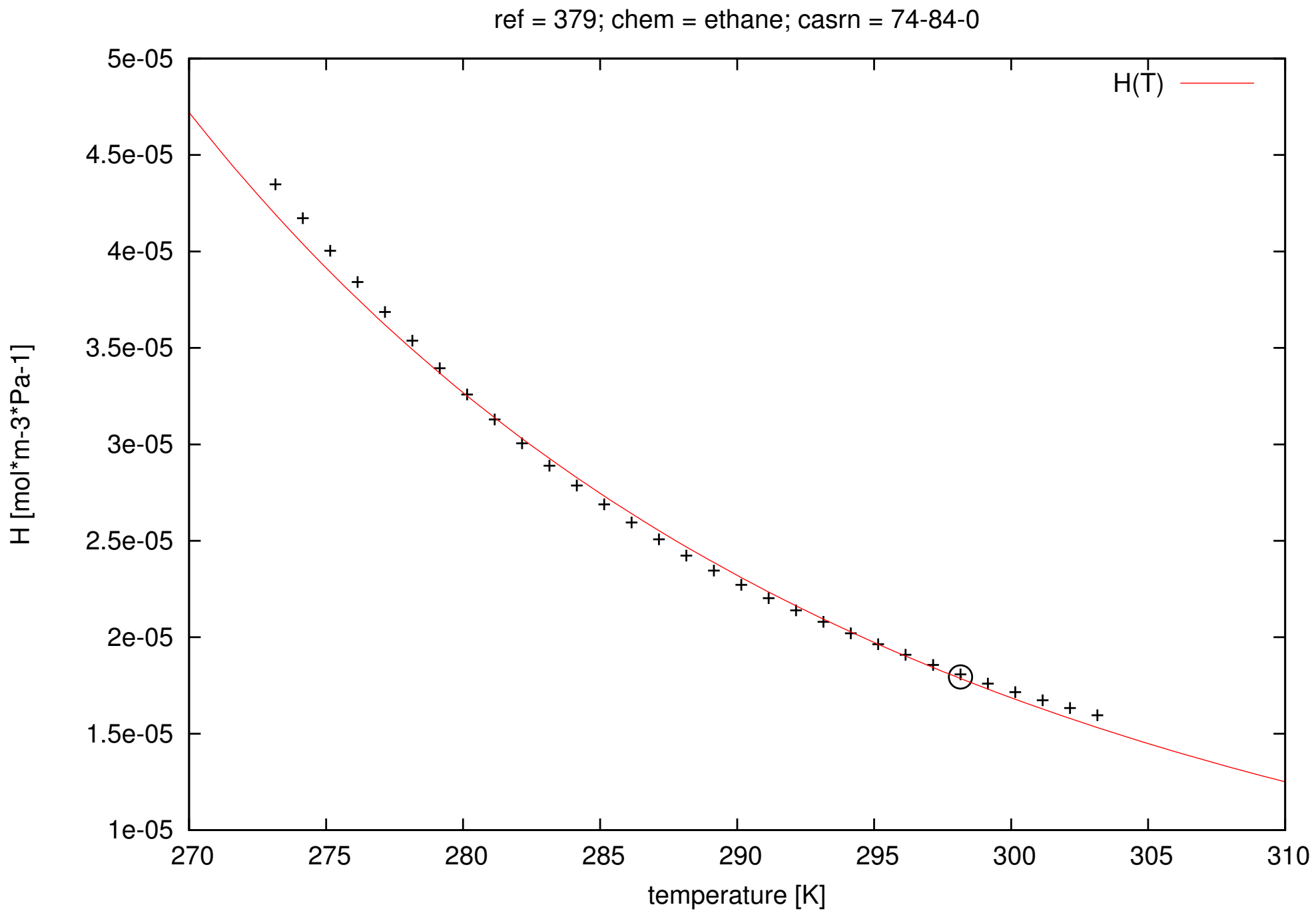

ref = 379; chem = argon; casrn = 7440-37-1
H(T)
H [mol*m-3*Pa-1]
temperature [K]
2.6e-05
2.4e-05
2.2e-05
2e-05
1.8e-05
1.6e-05
1.4e-05
1.2e-05
1e-05
270
275
280
285
290
295
300
305
310

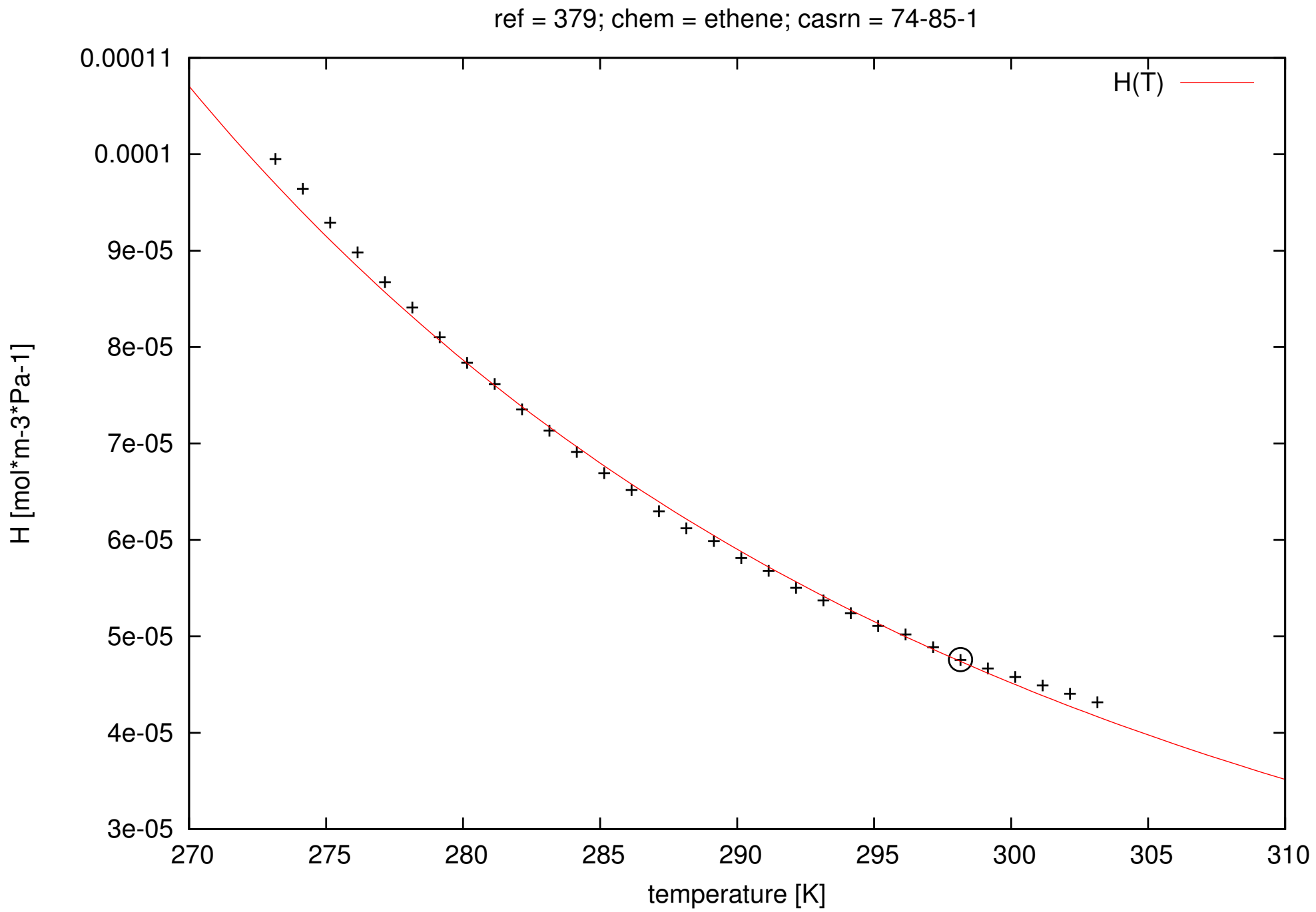

ref = 379; chem = helium; casrn = 7440-59-7
H(T)
H [mol*m-3*Pa-1]
temperature [K]
4.4e-06
4.3e-06
4.2e-06
4.1e-06
4e-06
3.9e-06
3.8e-06
3.7e-06
3.6e-06
3.5e-06
270
275
280
285
290
295
300
305
310

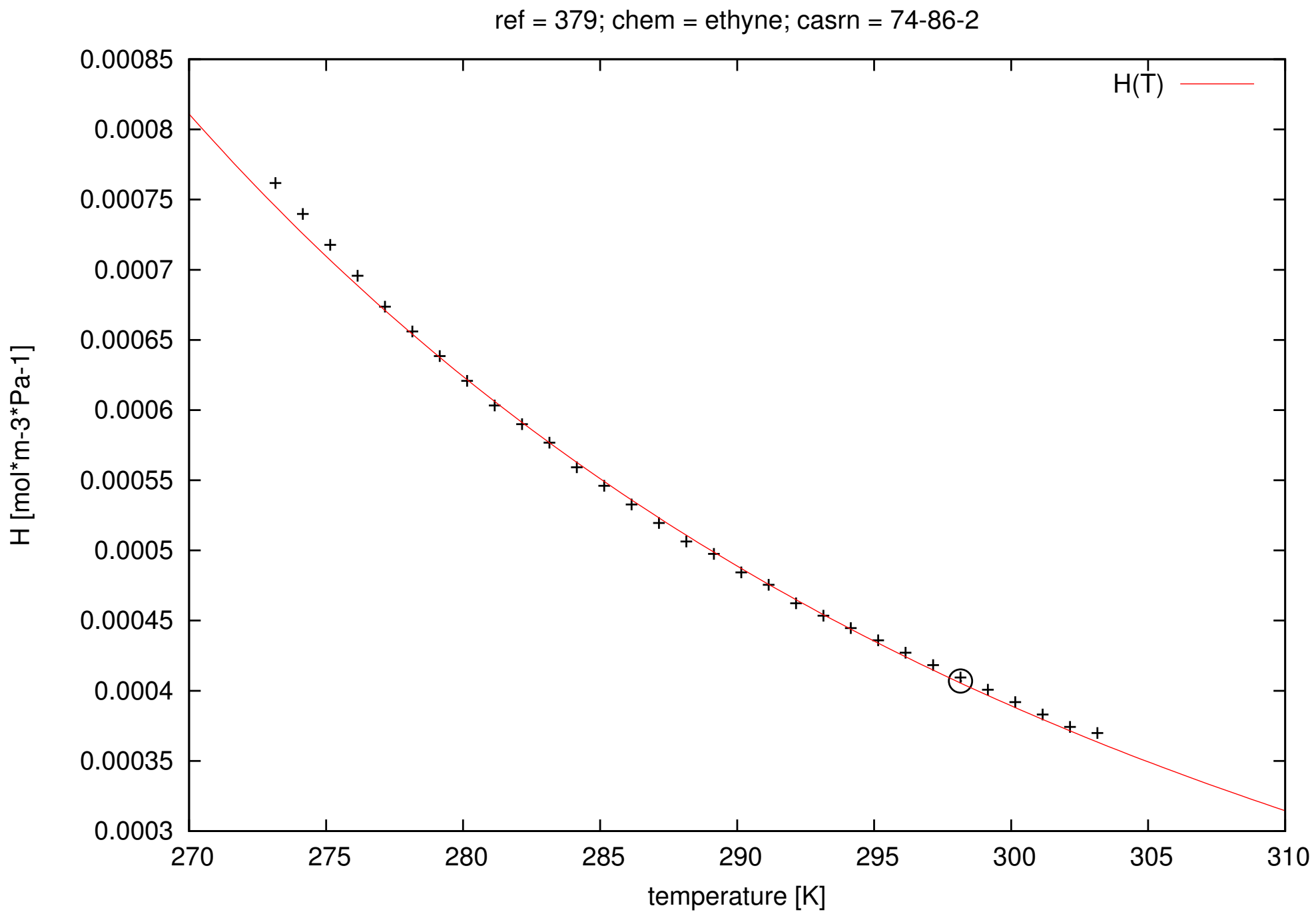

ref = 379; chem = xenon; casrn = 7440-63-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.00012
0.00011
0.0001
9e-05
8e-05
7e-05
6e-05
5e-05
4e-05
3e-05
270
275
280
285
290
295
300
305
310

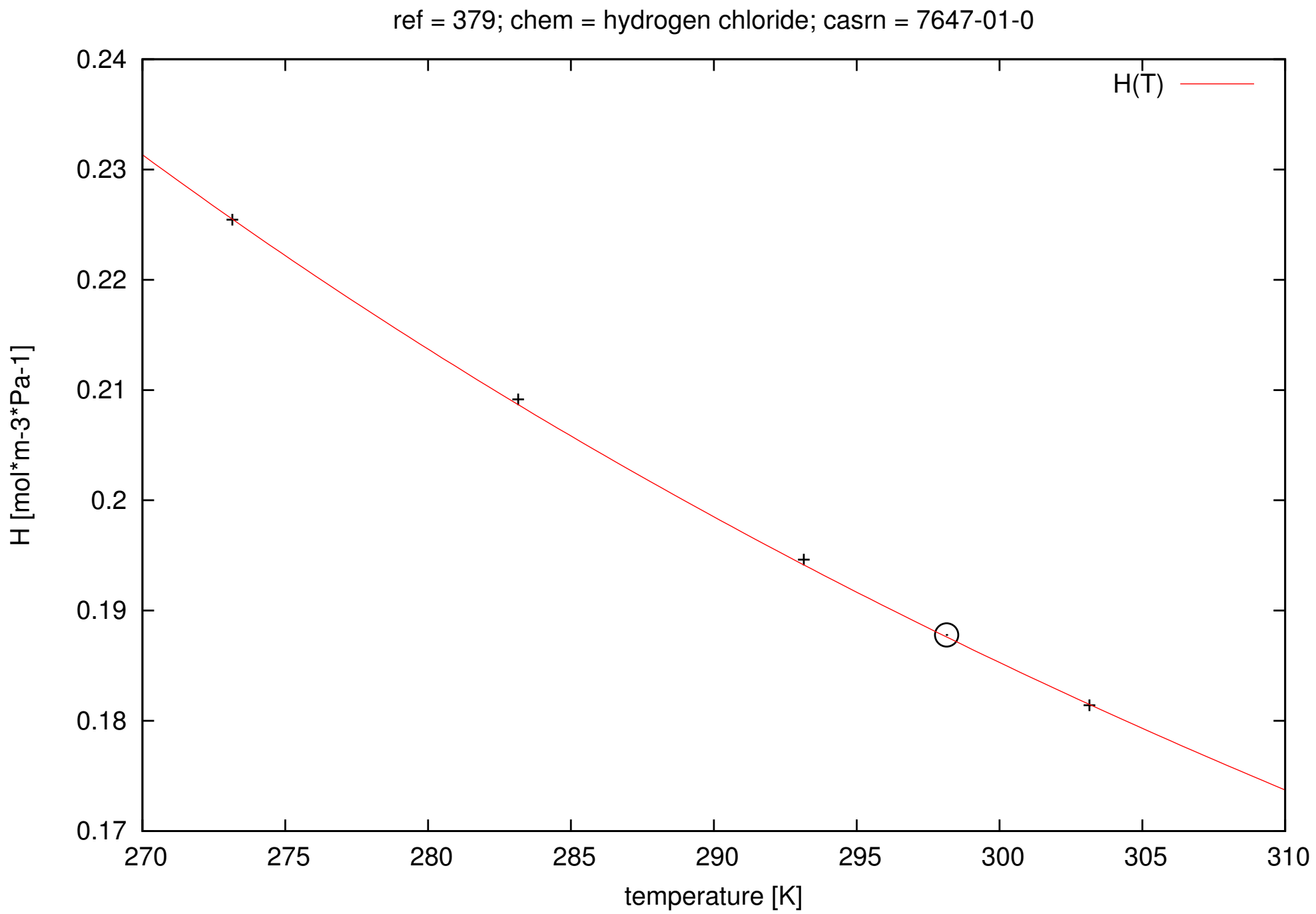

ref = 379; chem = sulfur dioxide; casrn = 7446-09-5
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
270
275
280
285
290
295
300
305
310

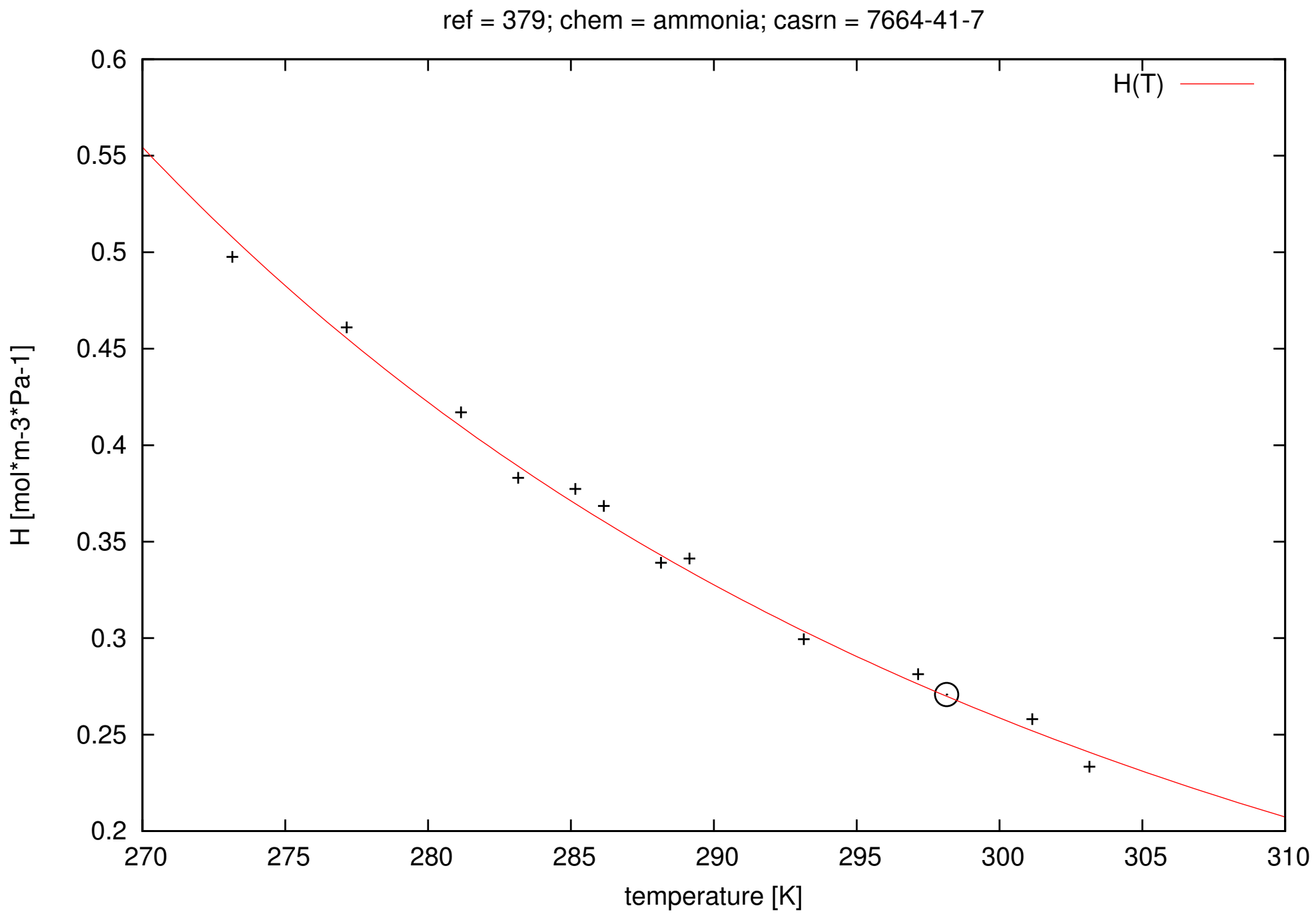

ref = 379; chem = methane; casrn = 74-82-8
H(T)
H [mol*m-3*Pa-1]
temperature [K]
2.6e-05
2.4e-05
2.2e-05
2e-05
1.8e-05
1.6e-05
1.4e-05
1.2e-05
1e-05
270
275
280
285
290
295
300
305
310

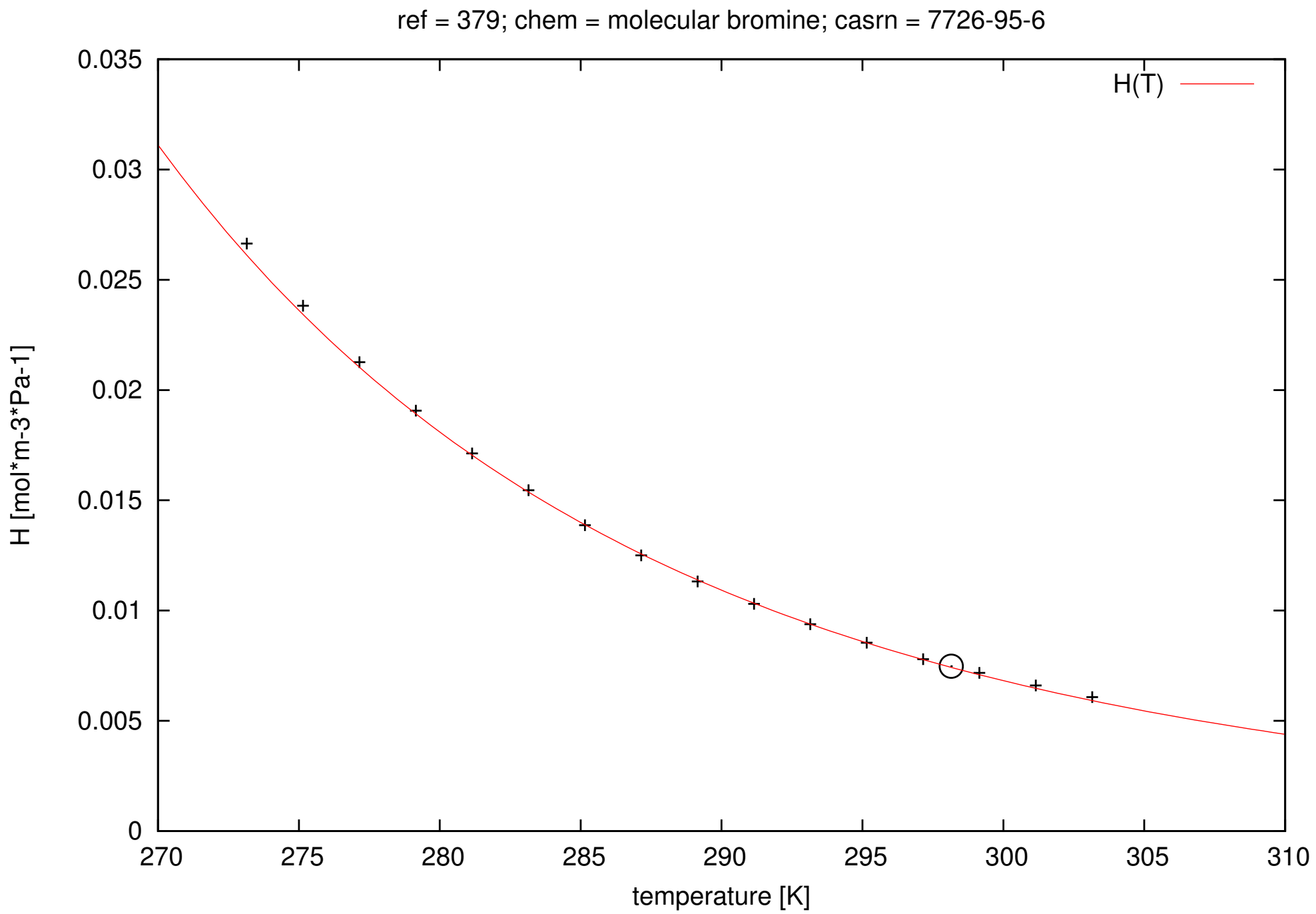

ref = 379; chem = ethane; casrn = 74-84-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
5e-05
4.5e-05
4e-05
3.5e-05
3e-05
2.5e-05
2e-05
1.5e-05
1e-05
270
275
280
285
290
295
300
305
310

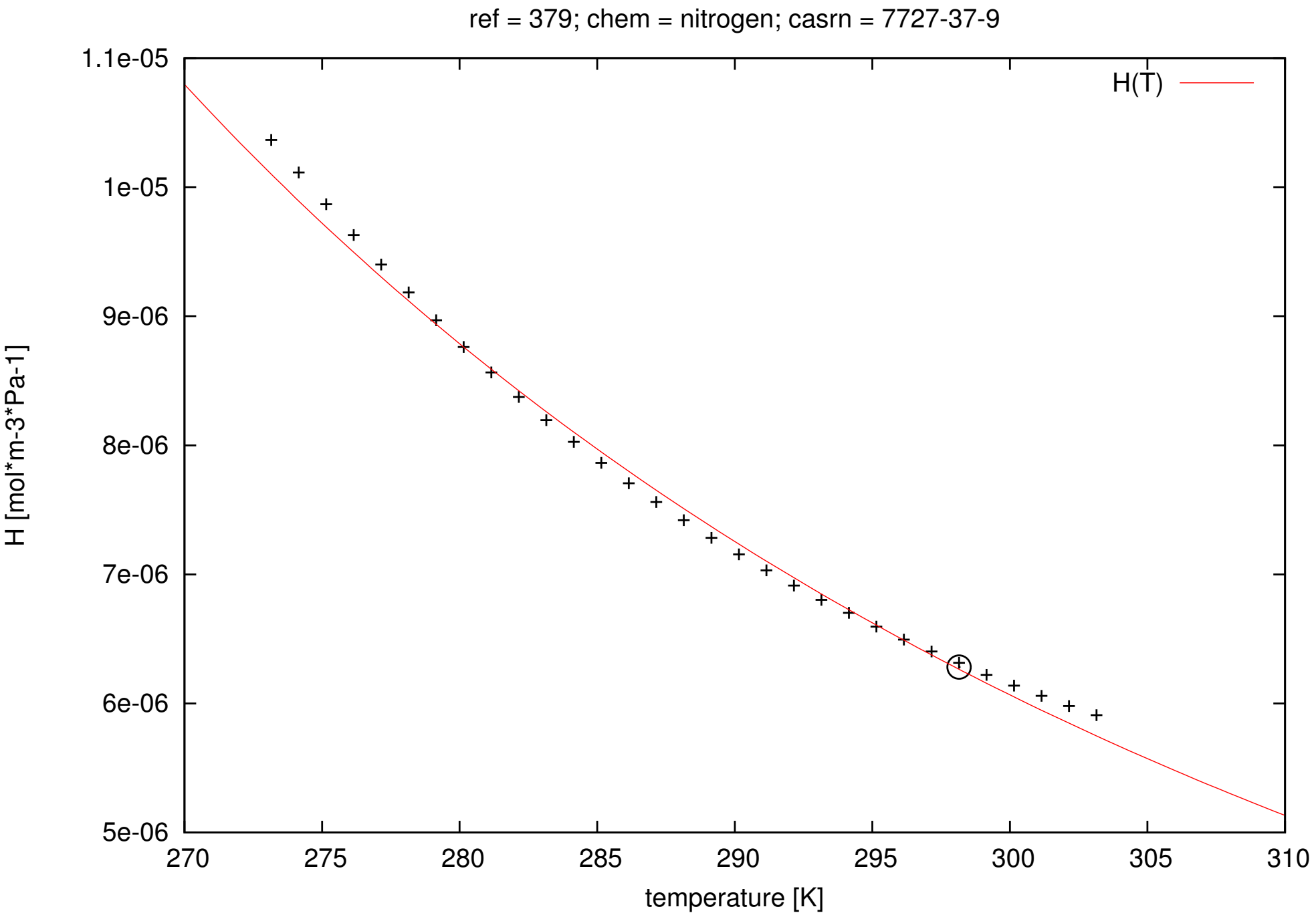

ref = 379; chem = ethene; casrn = 74-85-1
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.00011
0.0001
9e-05
8e-05
7e-05
6e-05
5e-05
4e-05
3e-05
270
275
280
285
290
295
300
305
310

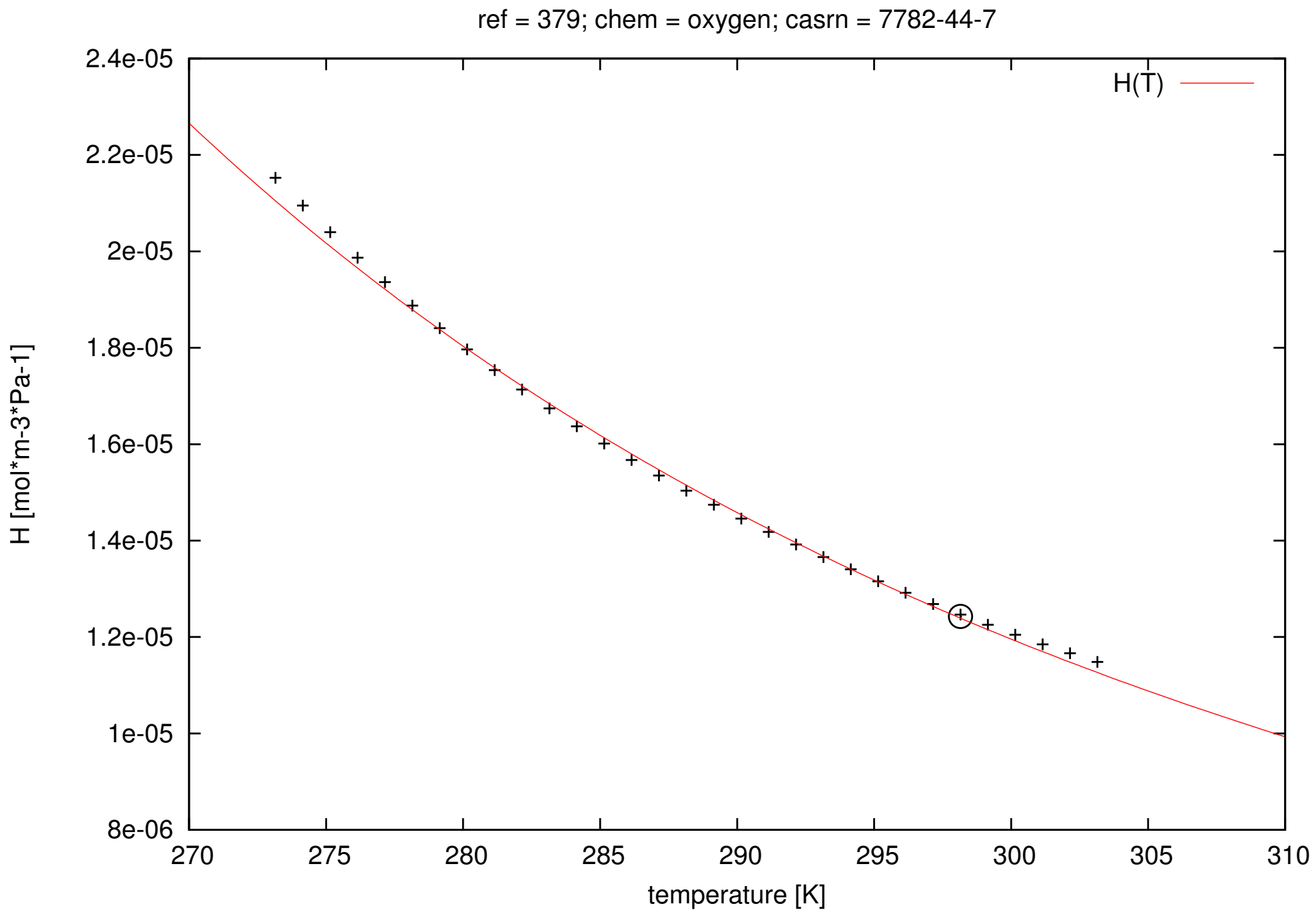

ref = 379; chem = ethyne; casrn = 74-86-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.00085
0.0008
0.00075
0.0007
0.00065
0.0006
0.00055
0.0005
0.00045
0.0004
0.00035
0.0003
270
275
280
285
290
295
300
305
310

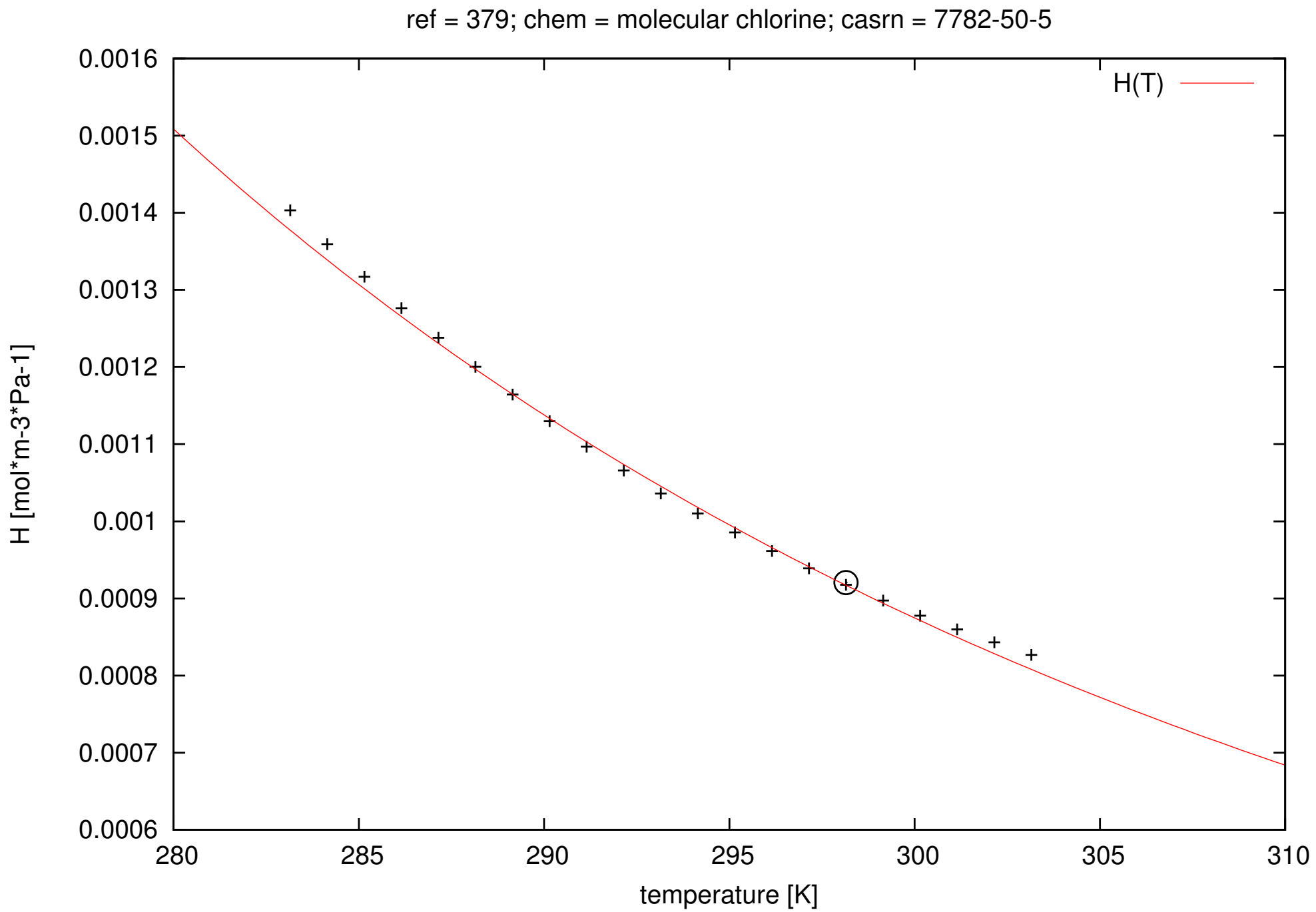

ref = 379; chem = hydrogen chloride; casrn = 7647-01-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.24
0.23
0.22
0.21
0.2
0.19
0.18
0.17
270
275
280
285
290
295
300
305
310

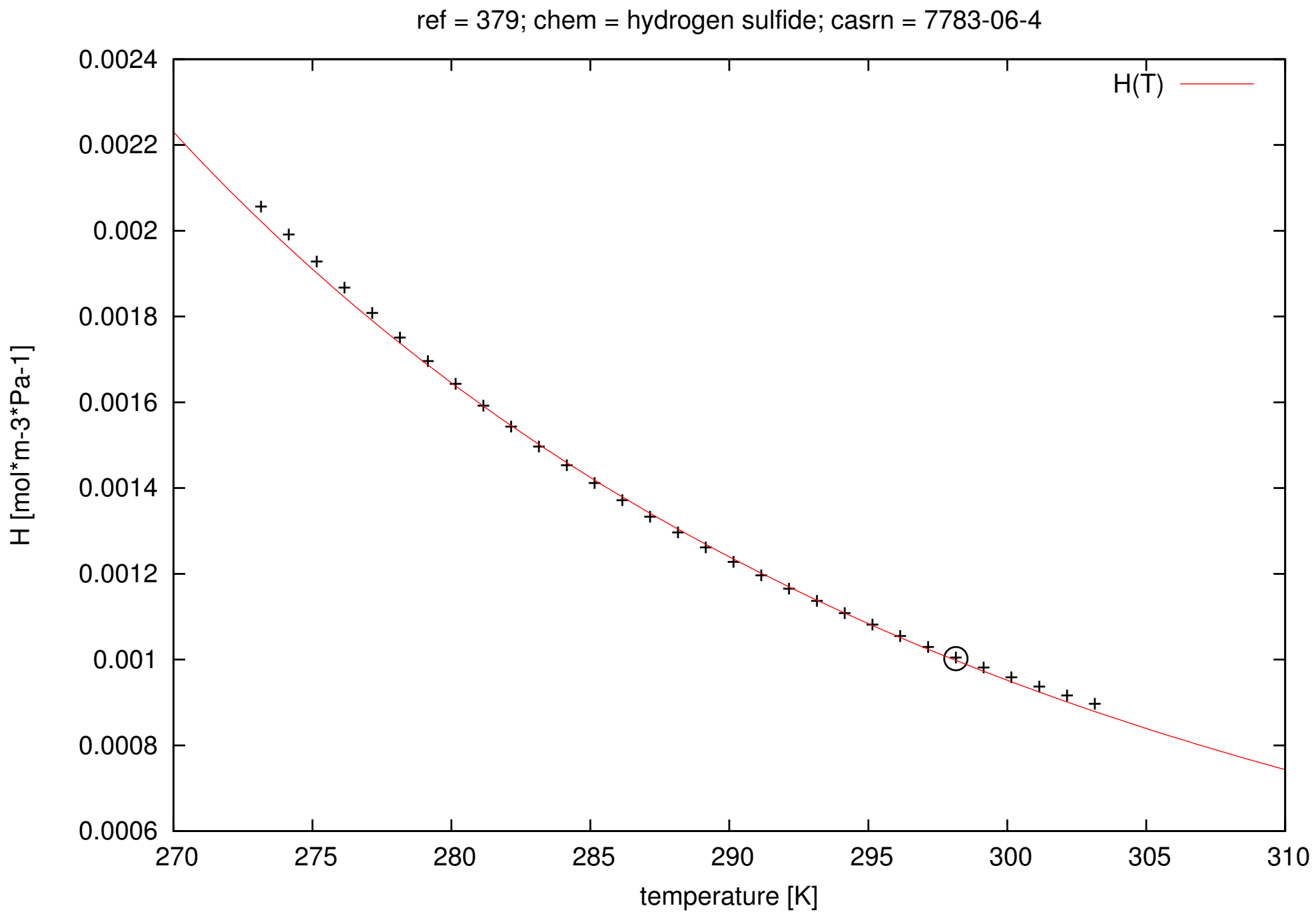

ref = 379; chem = ammonia; casrn = 7664-41-7
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2
270
275
280
285
290
295
300
305
310

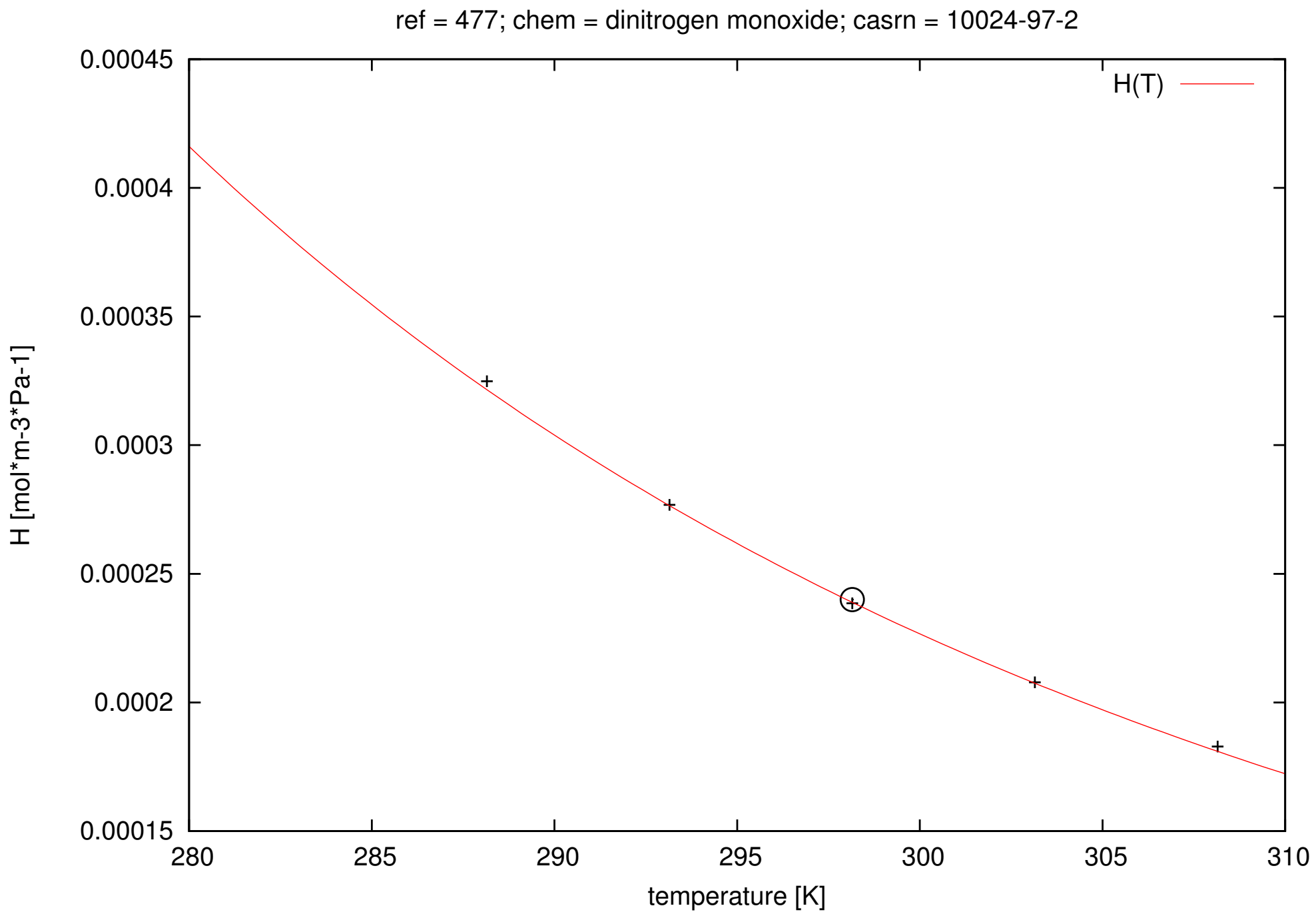

ref = 379; chem = molecular bromine; casrn = 7726-95-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
270
275
280
285
290
295
300
305
310

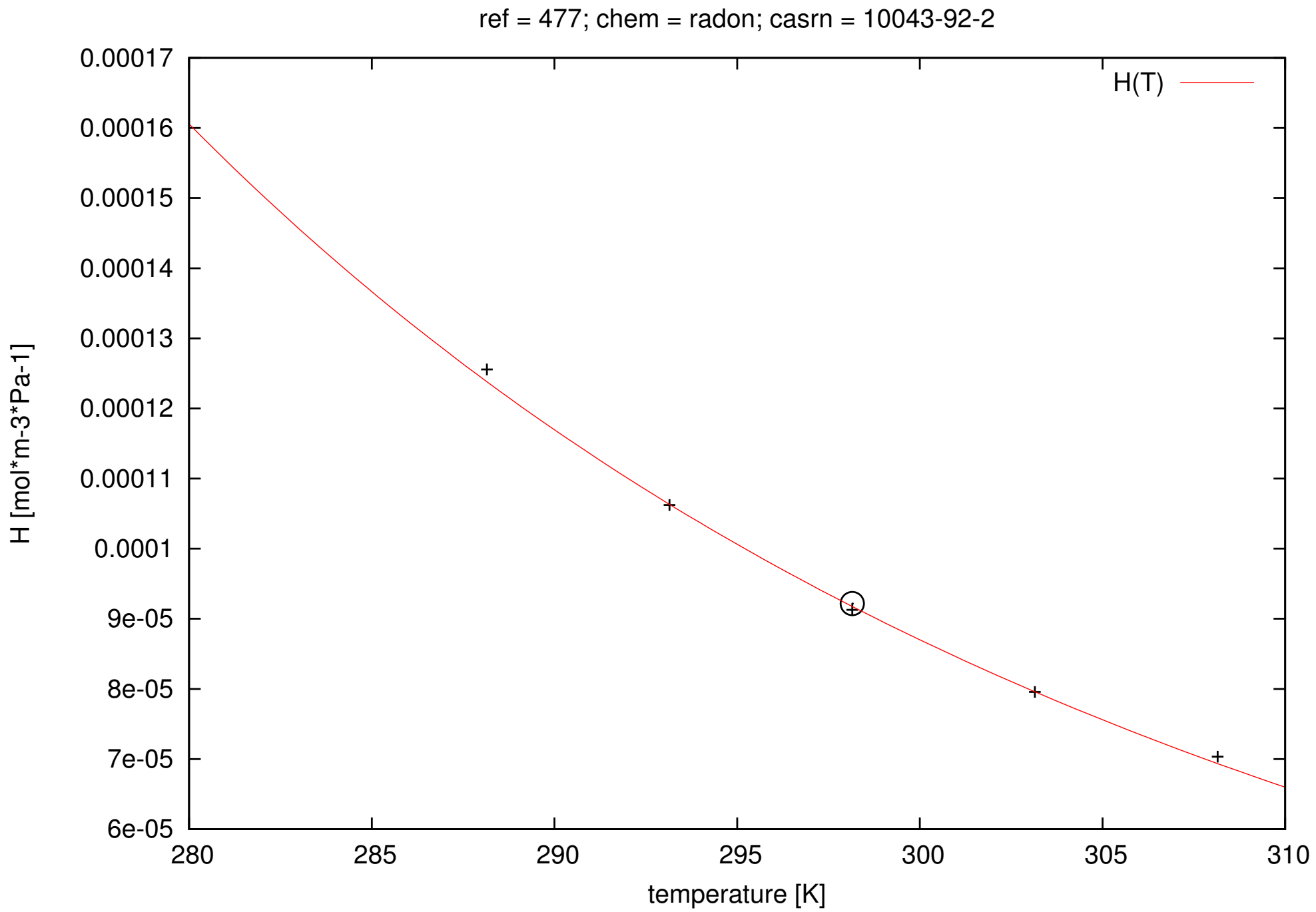

ref = 379; chem = nitrogen; casrn = 7727-37-9
H(T)
H [mol*m-3*Pa-1]
temperature [K]
1.1e-05
1e-05
9e-06
8e-06
7e-06
6e-06
5e-06
270
275
280
285
290
295
300
305
310

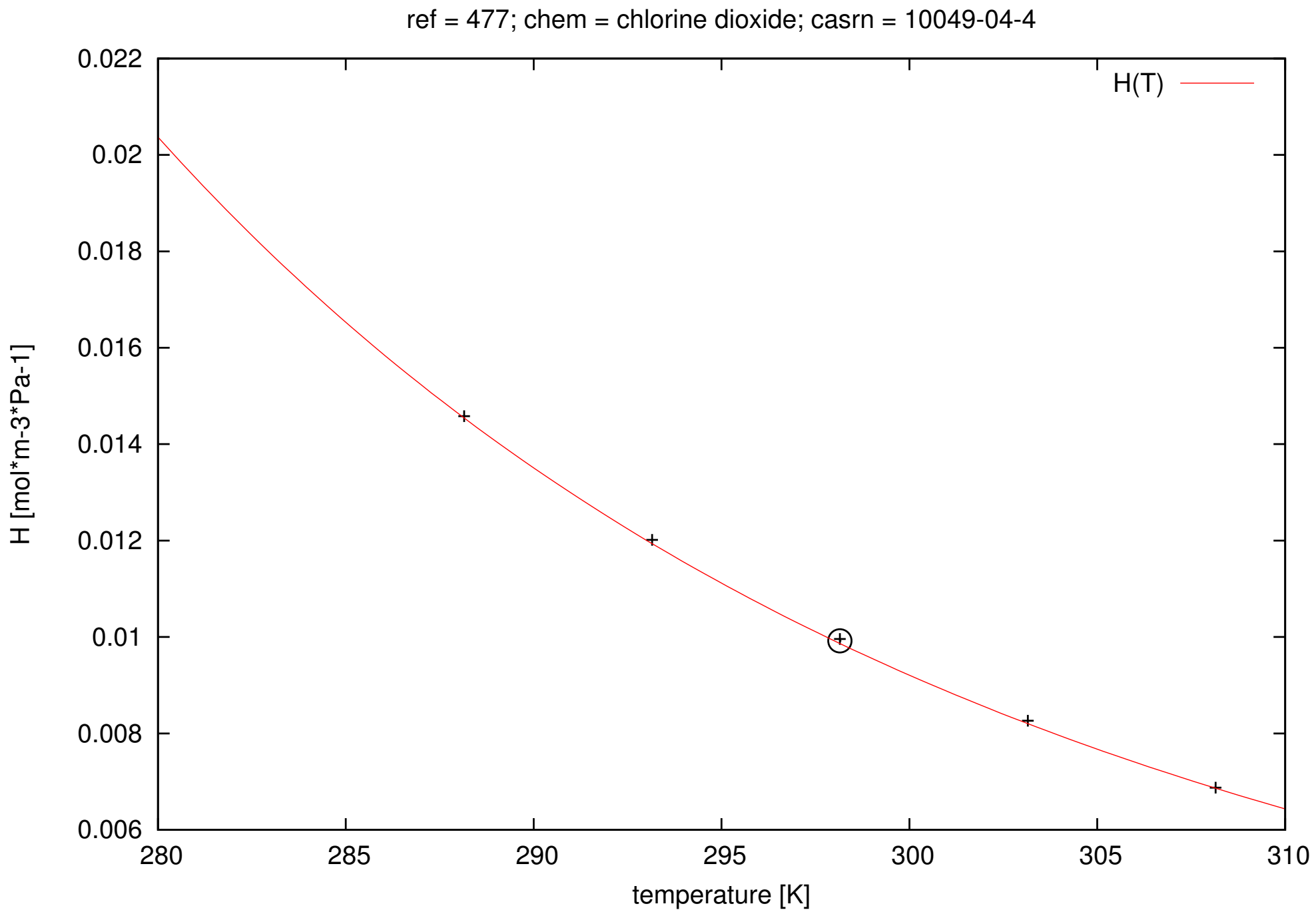

ref = 379; chem = oxygen; casrn = 7782-44-7
H(T)
H [mol*m-3*Pa-1]
temperature [K]
2.4e-05
2.2e-05
2e-05
1.8e-05
1.6e-05
1.4e-05
1.2e-05
1e-05
8e-06
270
275
280
285
290
295
300
305
310

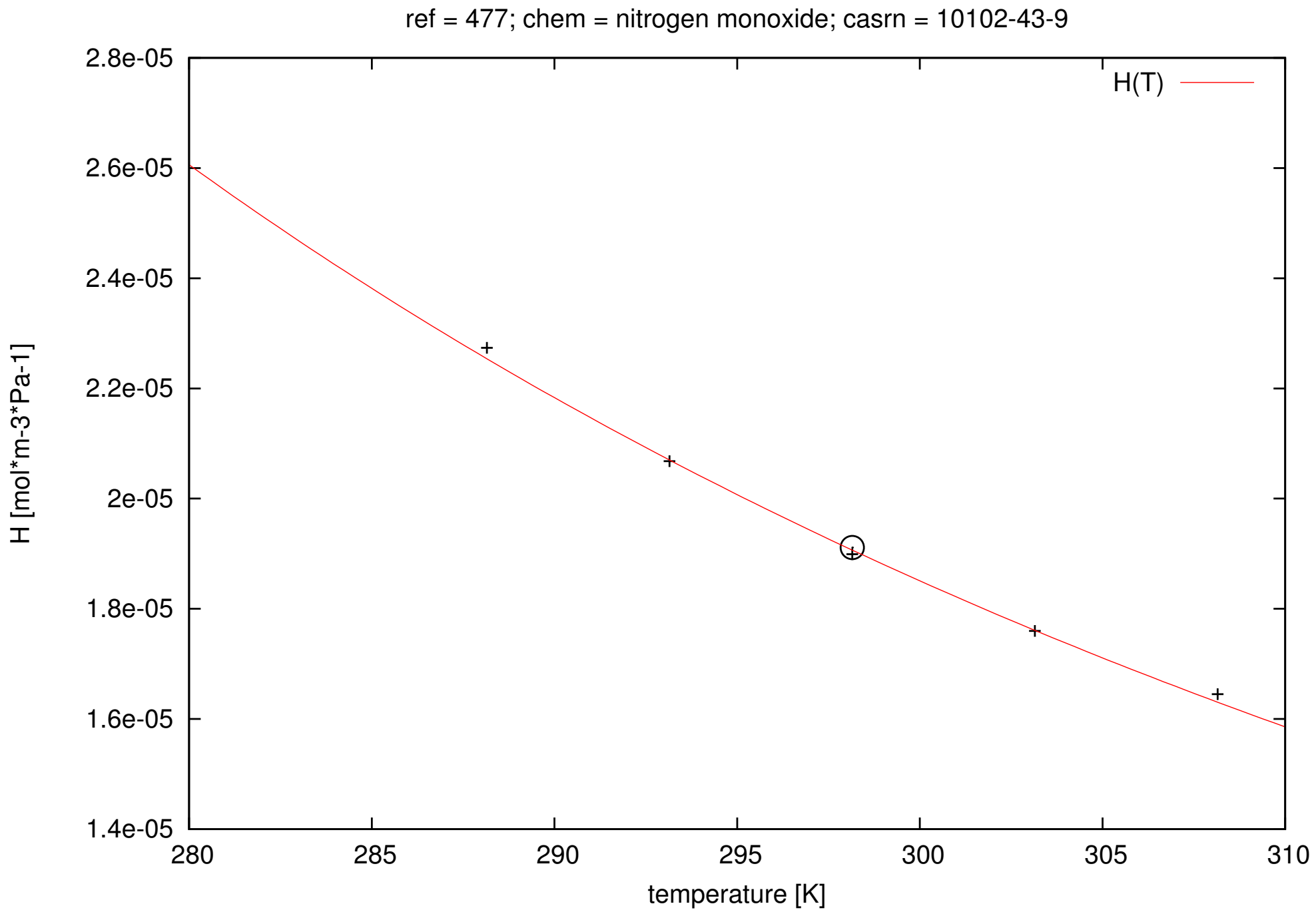

ref = 379; chem = molecular chlorine; casrn = 7782-50-5
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0016
0.0015
0.0014
0.0013
0.0012
0.0011
0.001
0.0009
0.0008
0.0007
0.0006
280
285
290
295
300
305
310

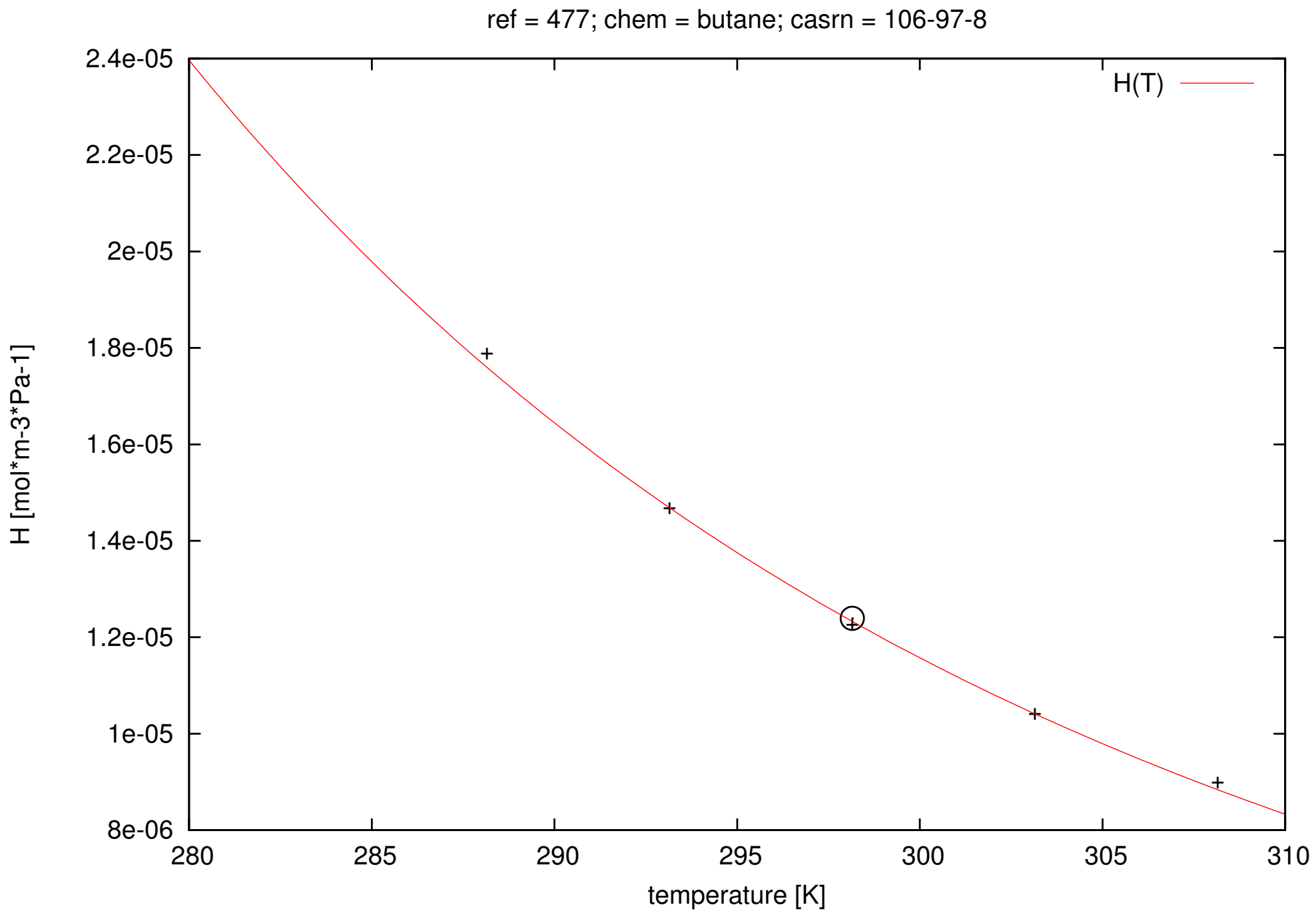

ref = 379; chem = hydrogen sulfide; casrn = 7783-06-4
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
270
275
280
285
290
295
300
305
310

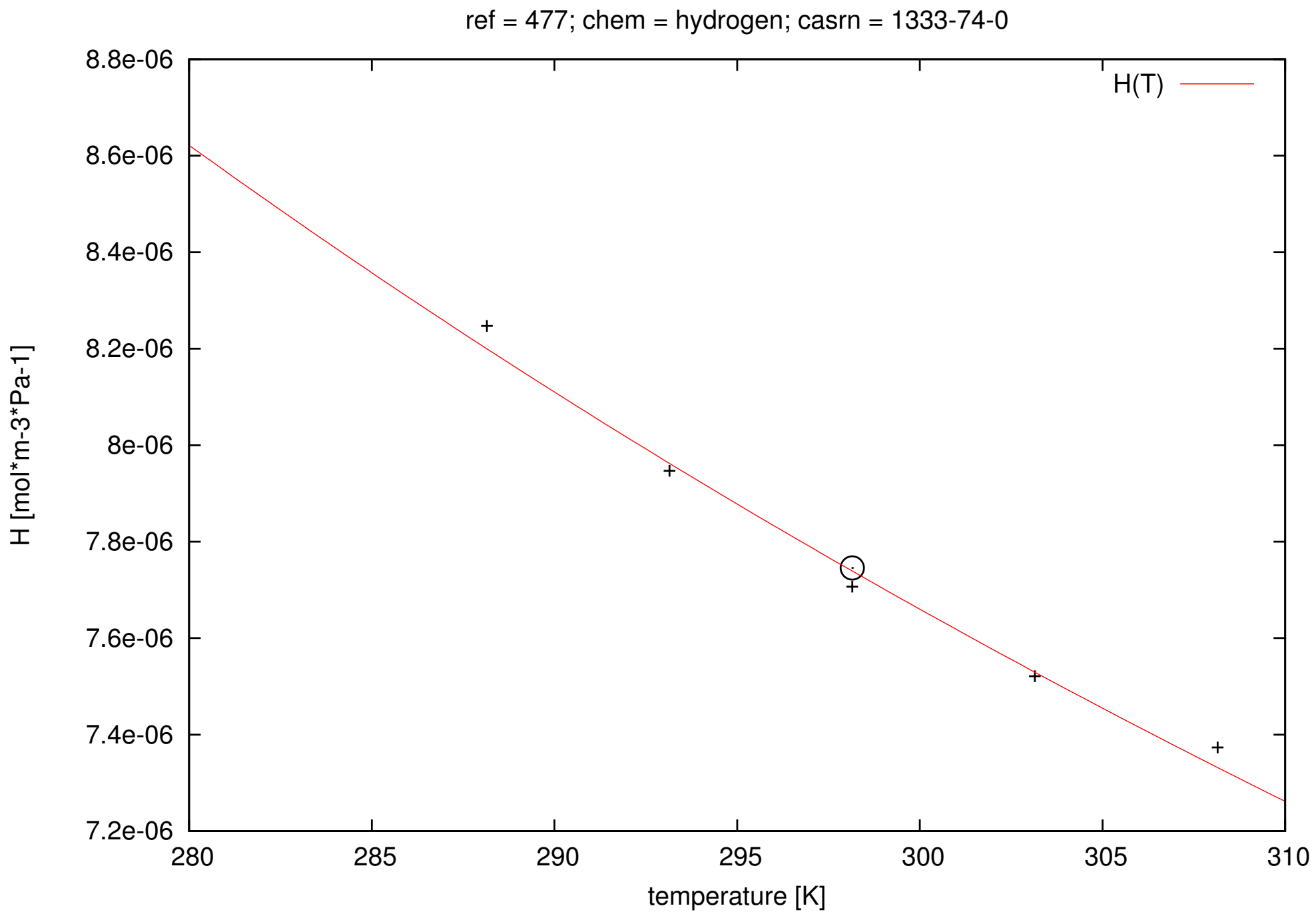

ref = 477; chem = dinitrogen monoxide; casrn = 10024-97-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.00045
0.0004
0.00035
0.0003
0.00025
0.0002
0.00015
280
285
290
295
300
305
310

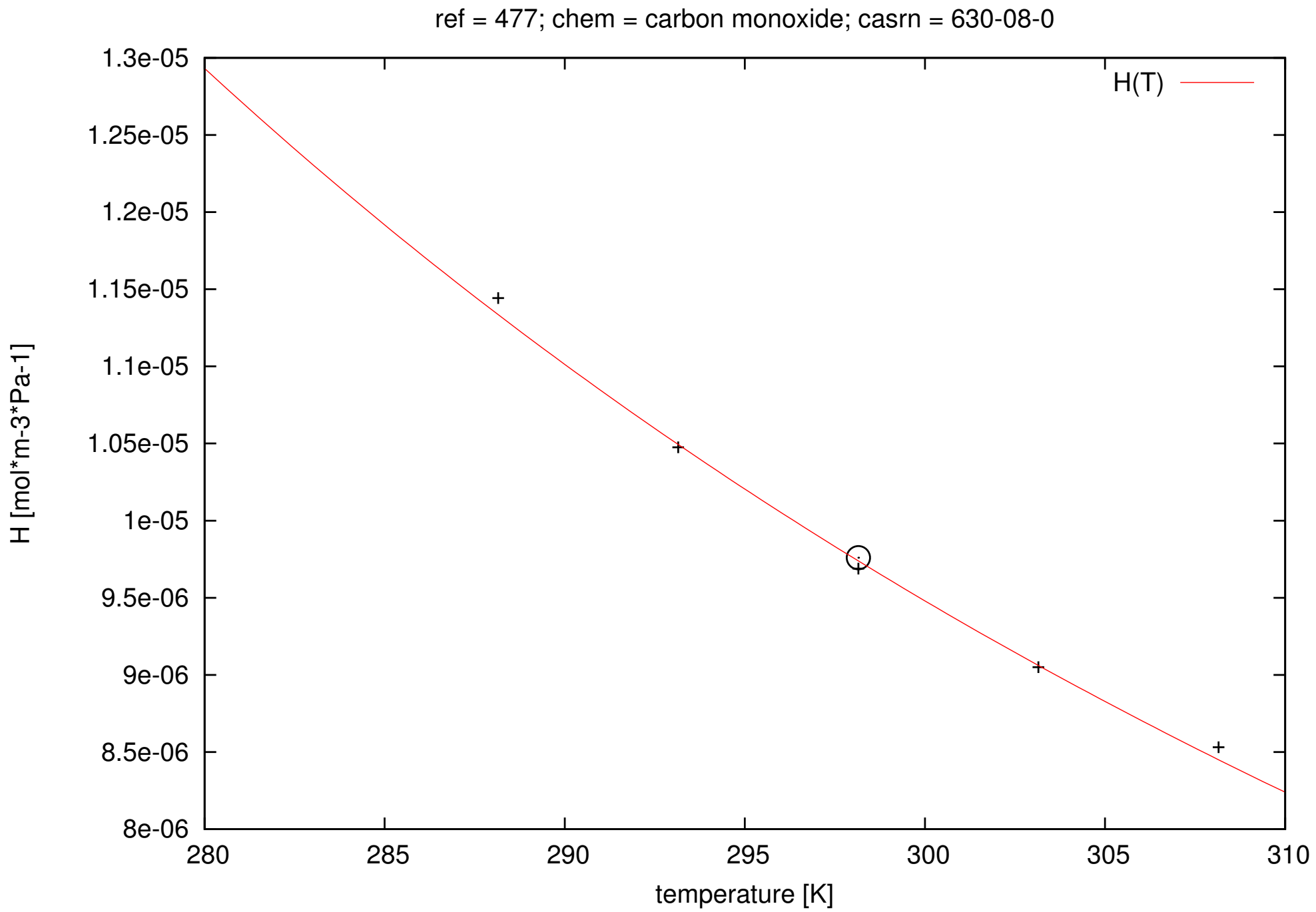

ref = 477; chem = radon; casrn = 10043-92-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.00017
0.00016
0.00015
0.00014
0.00013
0.00012
0.00011
0.0001
9e-05
8e-05
7e-05
6e-05
280
285
290
295
300
305
310

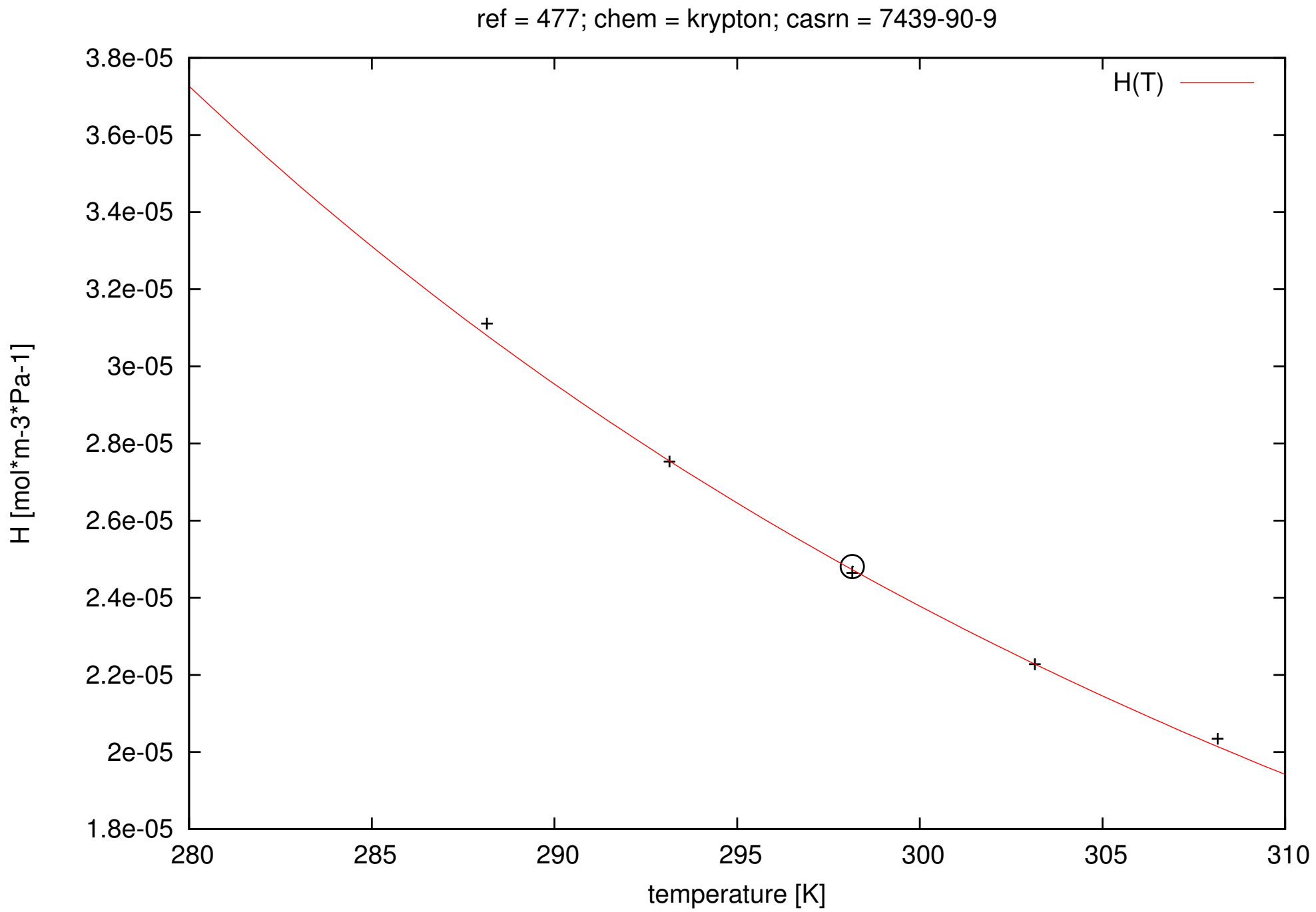

ref = 477; chem = chlorine dioxide; casrn = 10049-04-4
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
280
285
290
295
300
305
310

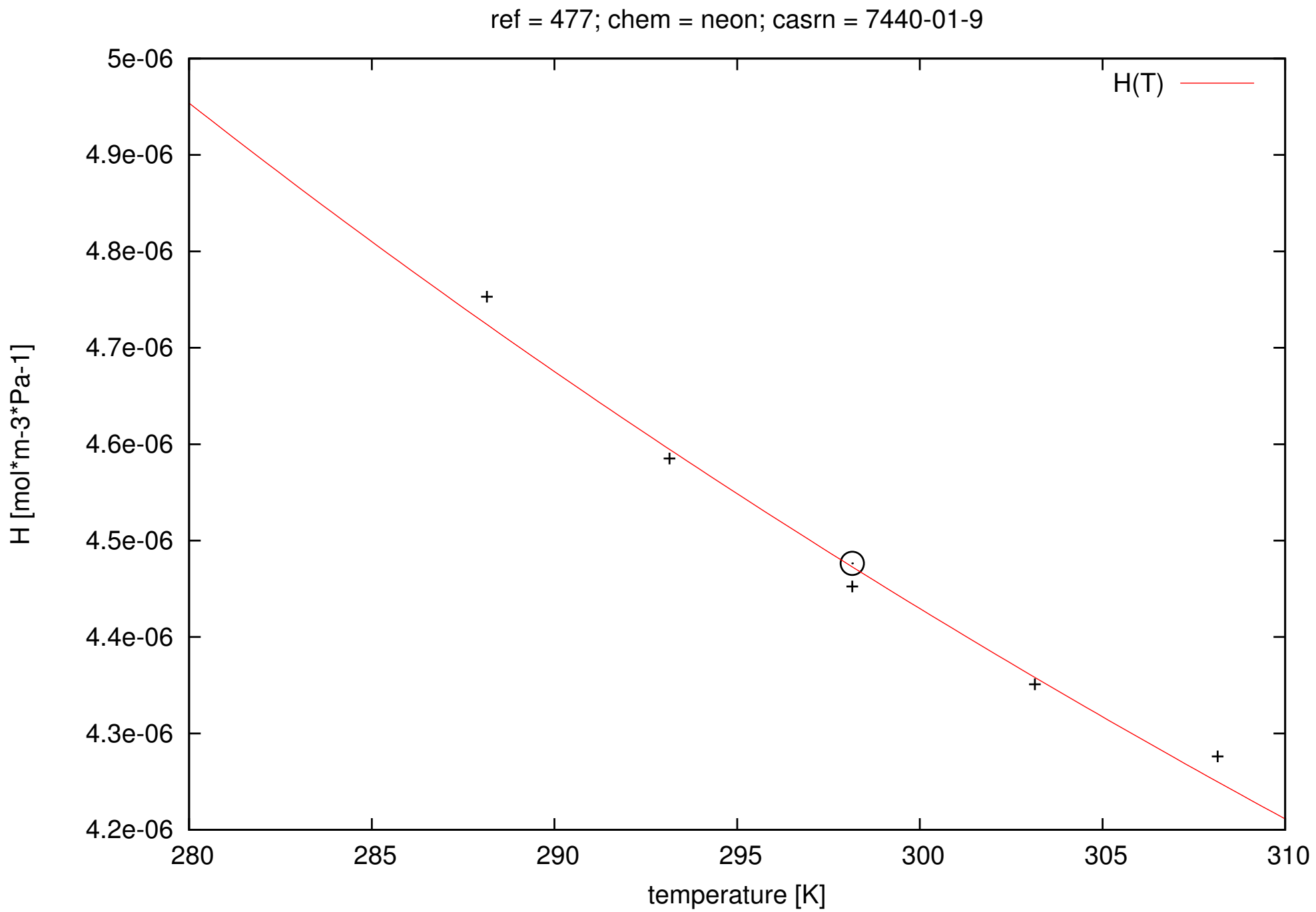

ref = 477; chem = nitrogen monoxide; casrn = 10102-43-9
H(T)
H [mol*m-3*Pa-1]
temperature [K]
2.8e-05
2.6e-05
2.4e-05
2.2e-05
2e-05
1.8e-05
1.6e-05
1.4e-05
280
285
290
295
300
305
310

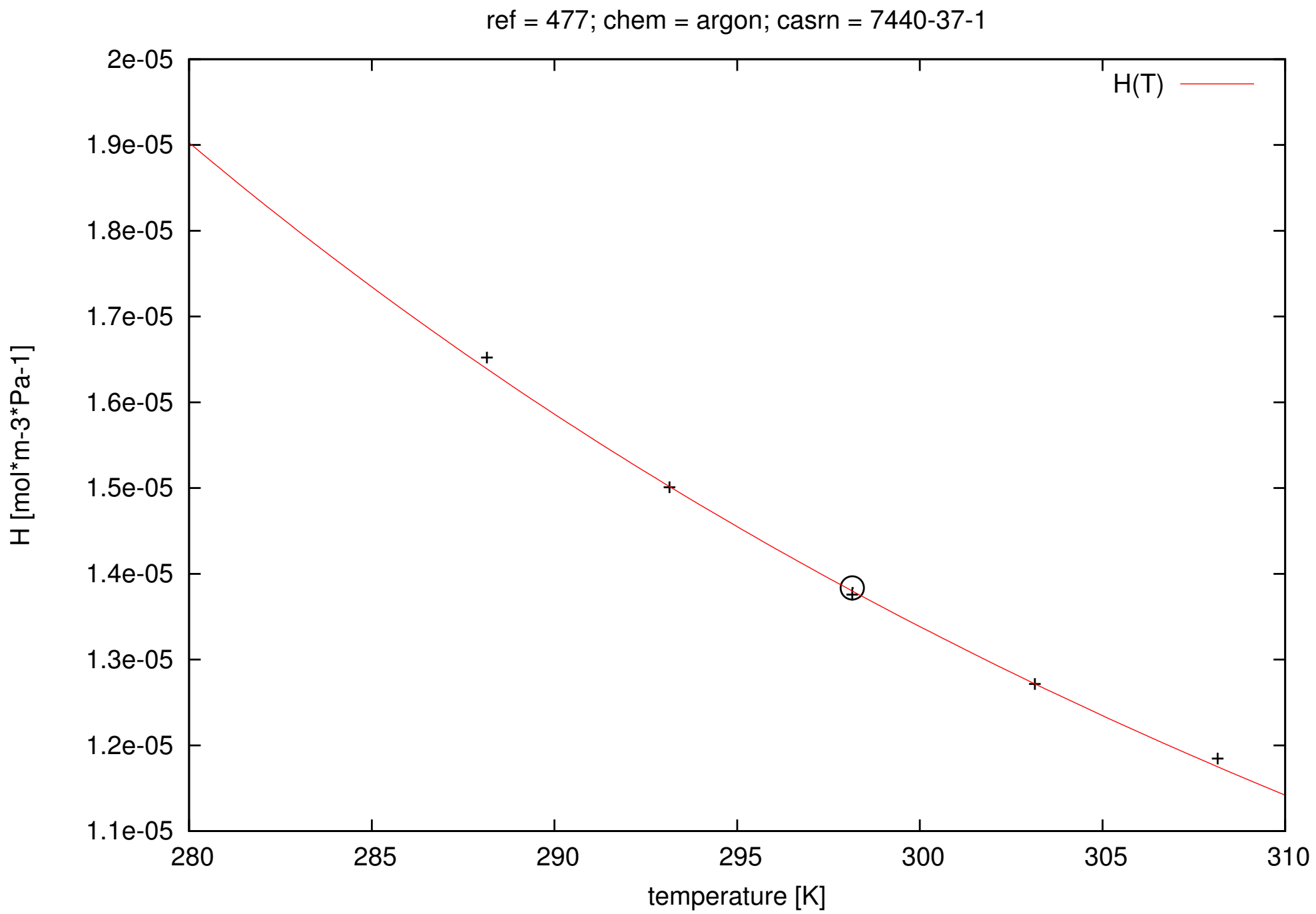

ref = 477; chem = butane; casrn = 106-97-8
H(T)
H [mol*m-3*Pa-1]
temperature [K]
2.4e-05
2.2e-05
2e-05
1.8e-05
1.6e-05
1.4e-05
1.2e-05
1e-05
8e-06
280
285
290
295
300
305
310

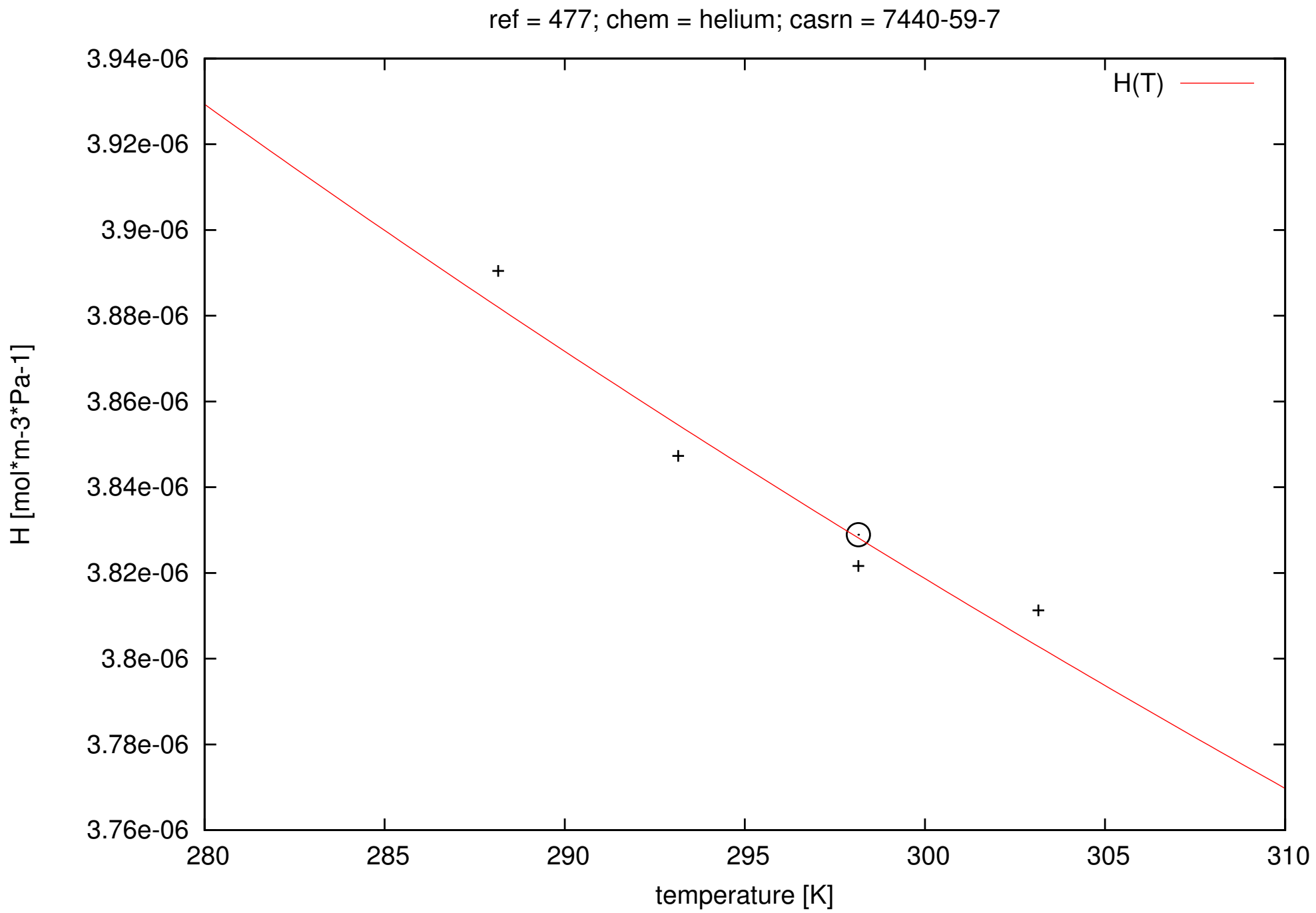

ref = 477; chem = hydrogen; casrn = 1333-74-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
8.8e-06
8.6e-06
8.4e-06
8.2e-06
8e-06
7.8e-06
7.6e-06
7.4e-06
7.2e-06
280
285
290
295
300
305
310

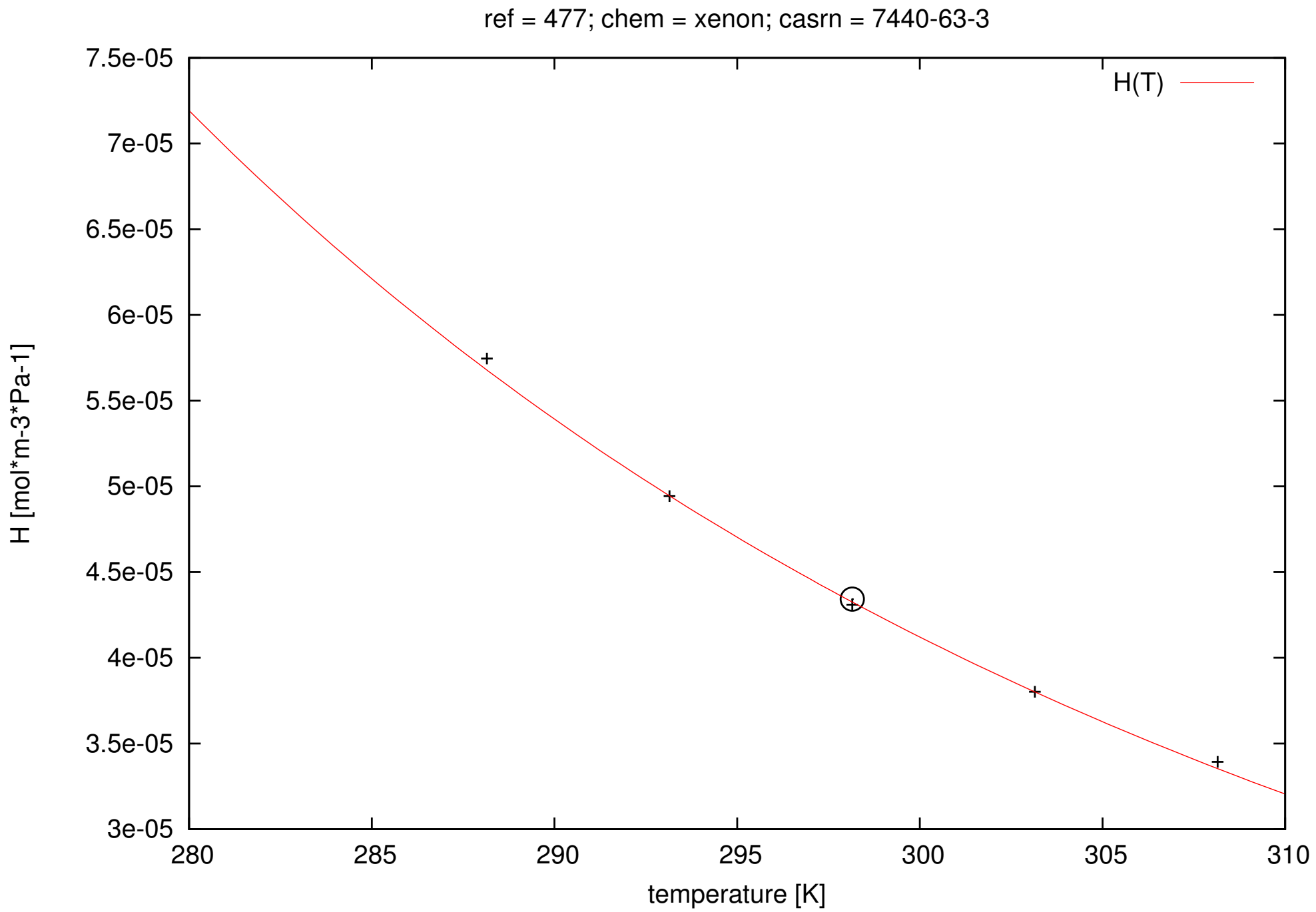

ref = 477; chem = carbon monoxide; casrn = 630-08-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
1.3e-05
1.25e-05
1.2e-05
1.15e-05
1.1e-05
1.05e-05
1e-05
9.5e-06
9e-06
8.5e-06
8e-06
280
285
290
295
300
305
310

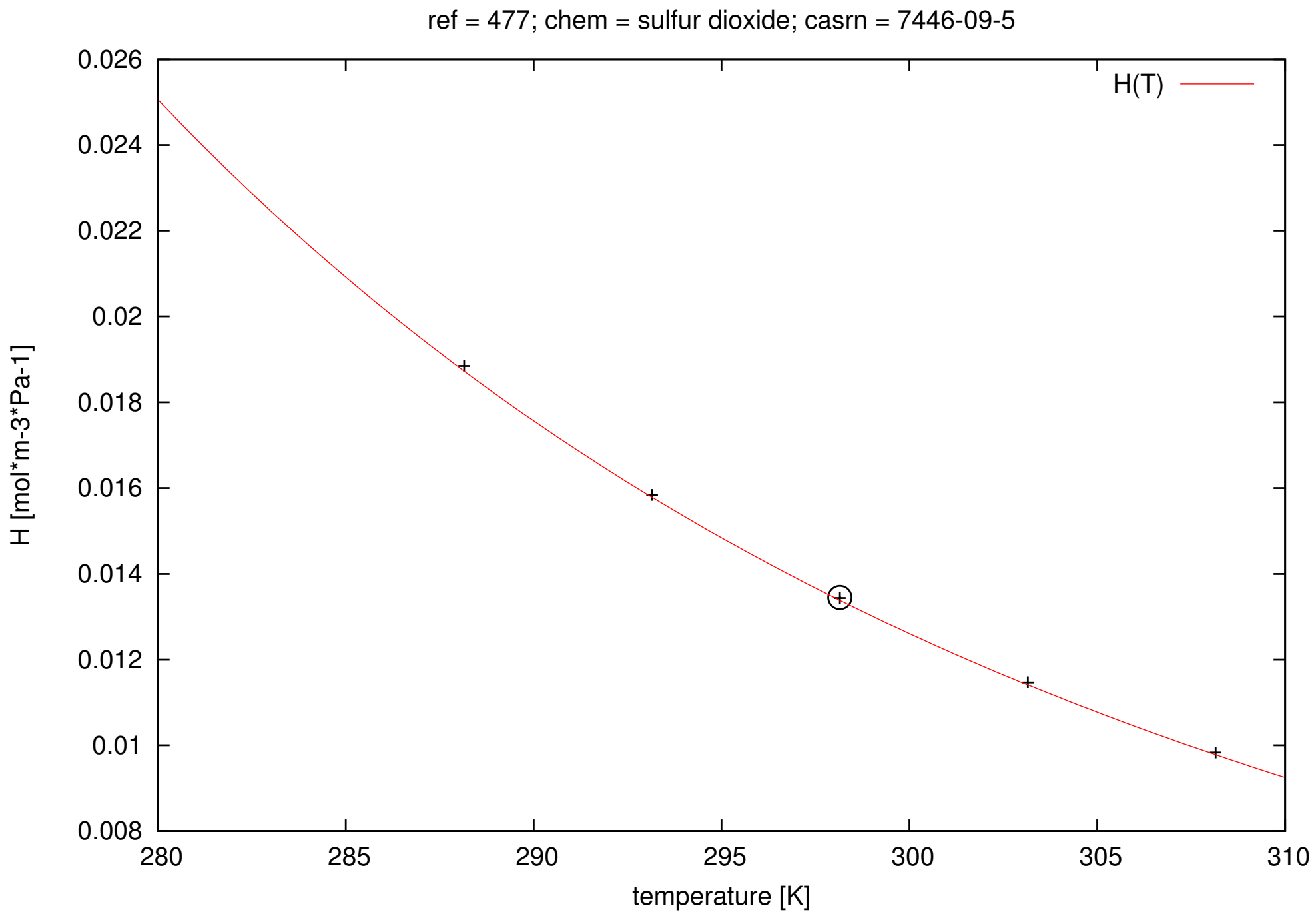

ref = 477; chem = krypton; casrn = 7439-90-9
H(T)
H [mol*m-3*Pa-1]
temperature [K]
3.8e-05
3.6e-05
3.4e-05
3.2e-05
3e-05
2.8e-05
2.6e-05
2.4e-05
2.2e-05
2e-05
1.8e-05
280
285
290
295
300
305
310

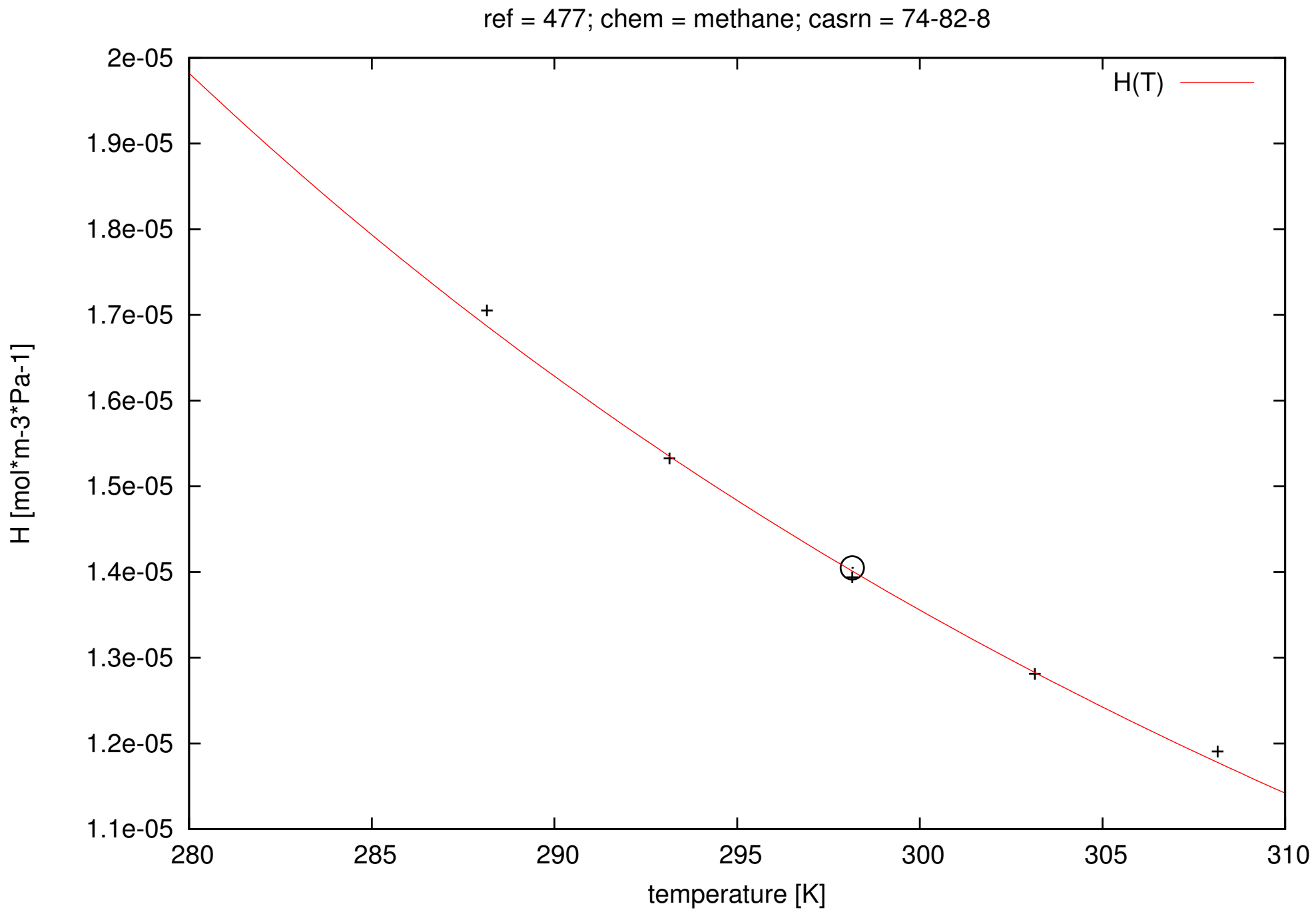

ref = 477; chem = neon; casrn = 7440-01-9
H(T)
H [mol*m-3*Pa-1]
temperature [K]
5e-06
4.9e-06
4.8e-06
4.7e-06
4.6e-06
4.5e-06
4.4e-06
4.3e-06
4.2e-06
280
285
290
295
300
305
310

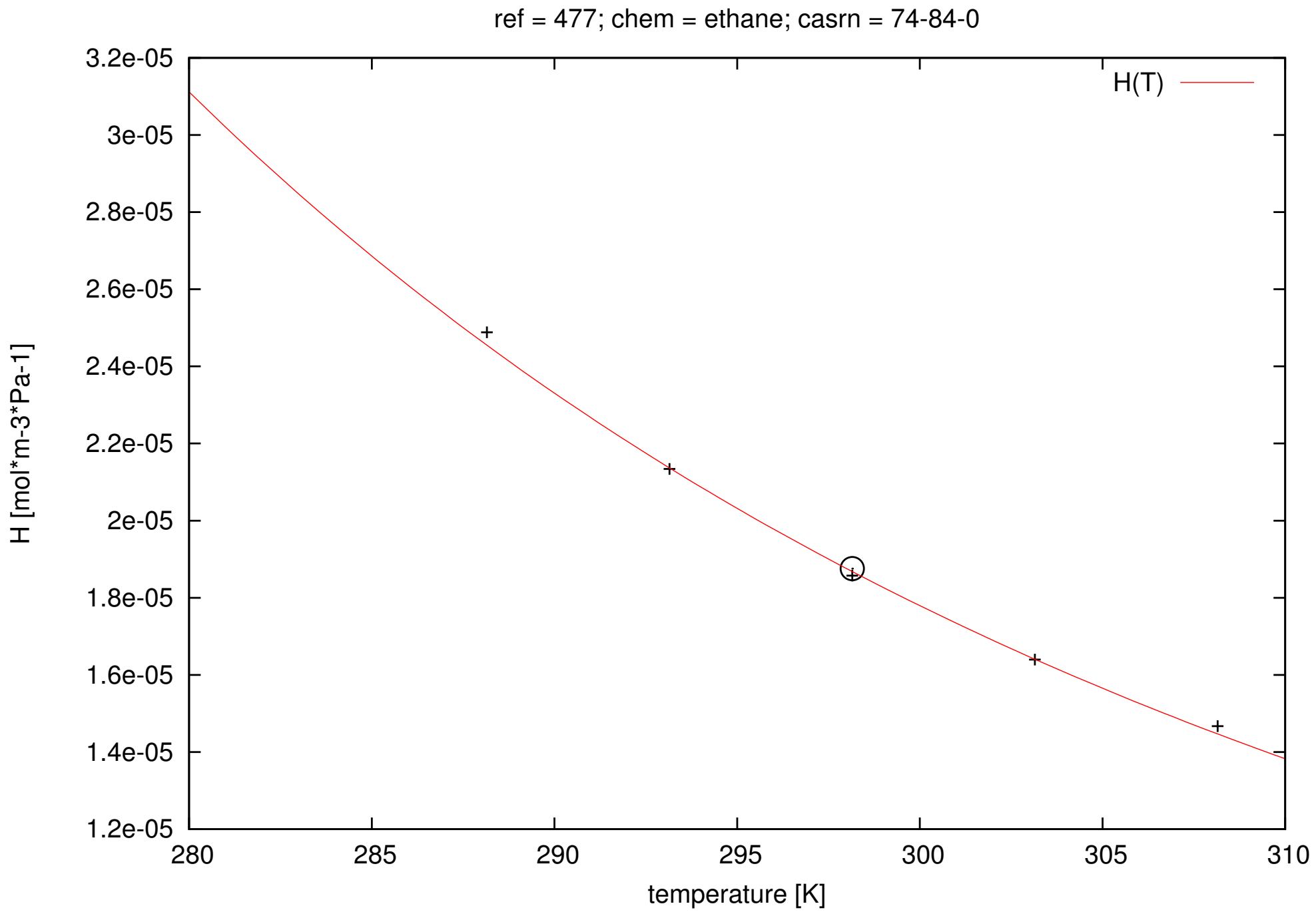

ref = 477; chem = argon; casrn = 7440-37-1
H(T)
H [mol*m-3*Pa-1]
temperature [K]
2e-05
1.9e-05
1.8e-05
1.7e-05
1.6e-05
1.5e-05
1.4e-05
1.3e-05
1.2e-05
1.1e-05
280
285
290
295
300
305
310

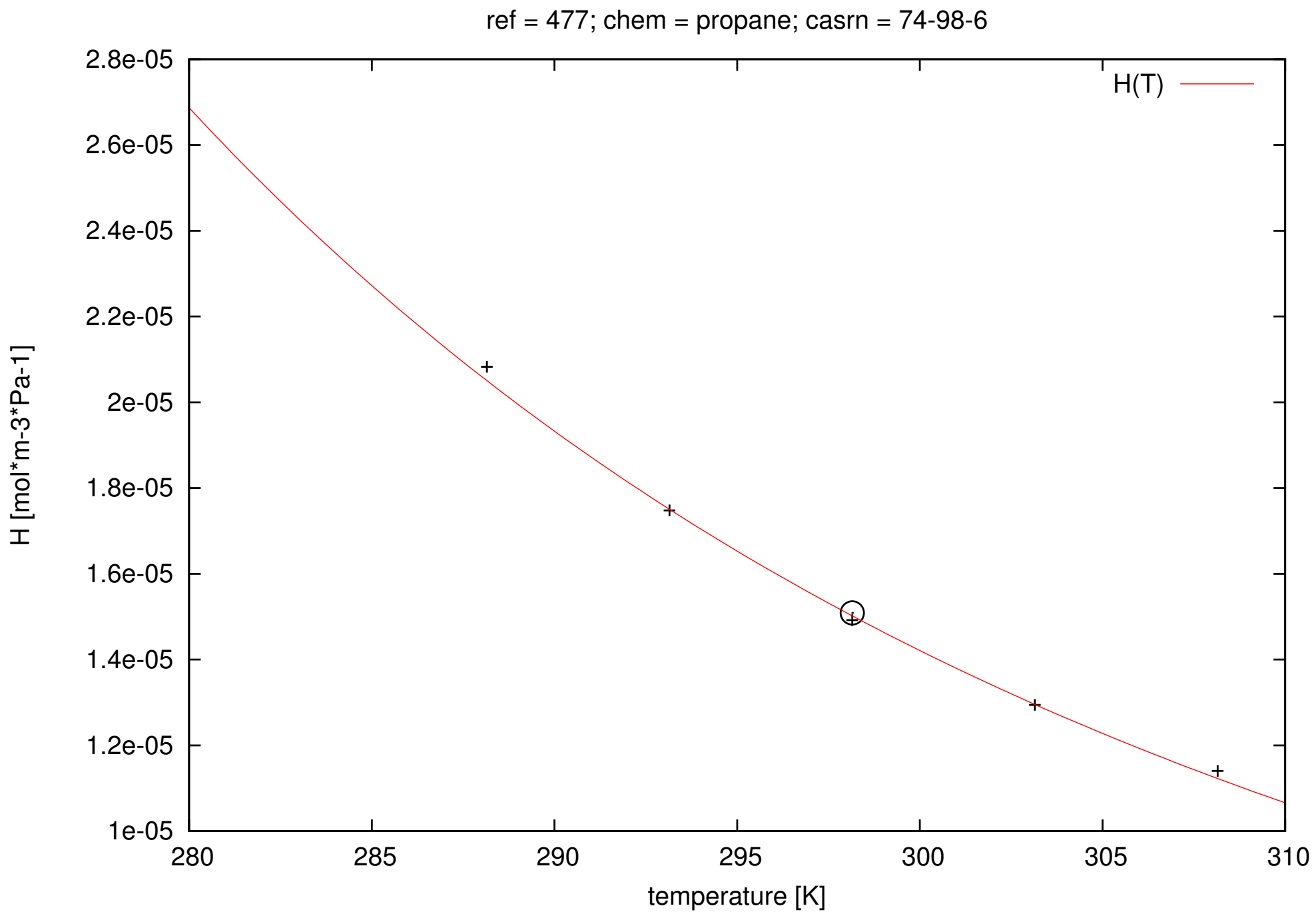

ref = 477; chem = helium; casrn = 7440-59-7
H(T)
H [mol*m-3*Pa-1]
temperature [K]
3.94e-06
3.92e-06
3.9e-06
3.88e-06
3.86e-06
3.84e-06
3.82e-06
3.8e-06
3.78e-06
3.76e-06
280
285
290
295
300
305
310

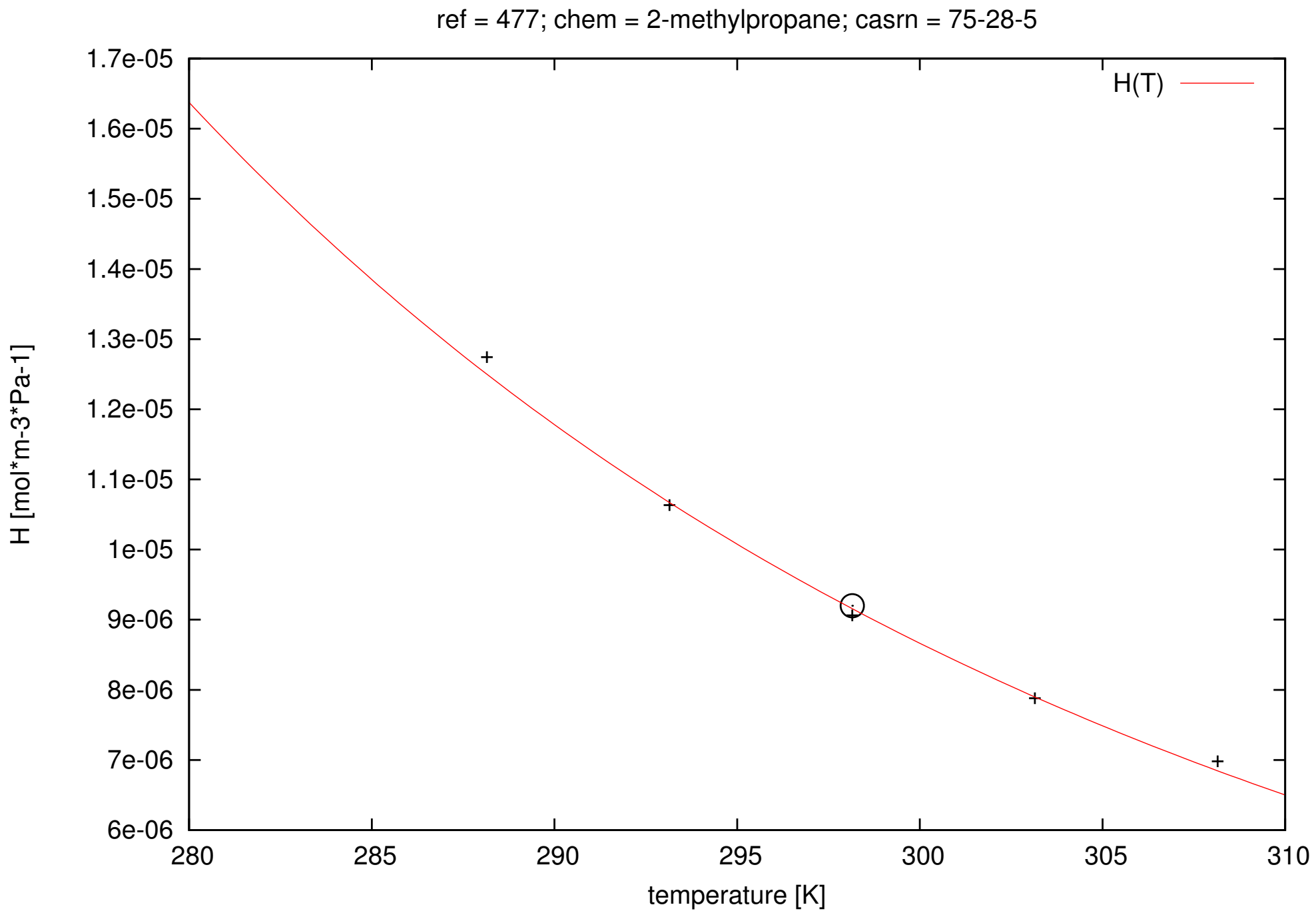

ref = 477; chem = xenon; casrn = 7440-63-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
7.5e-05
7e-05
6.5e-05
6e-05
5.5e-05
5e-05
4.5e-05
4e-05
3.5e-05
3e-05
280
285
290
295
300
305
310

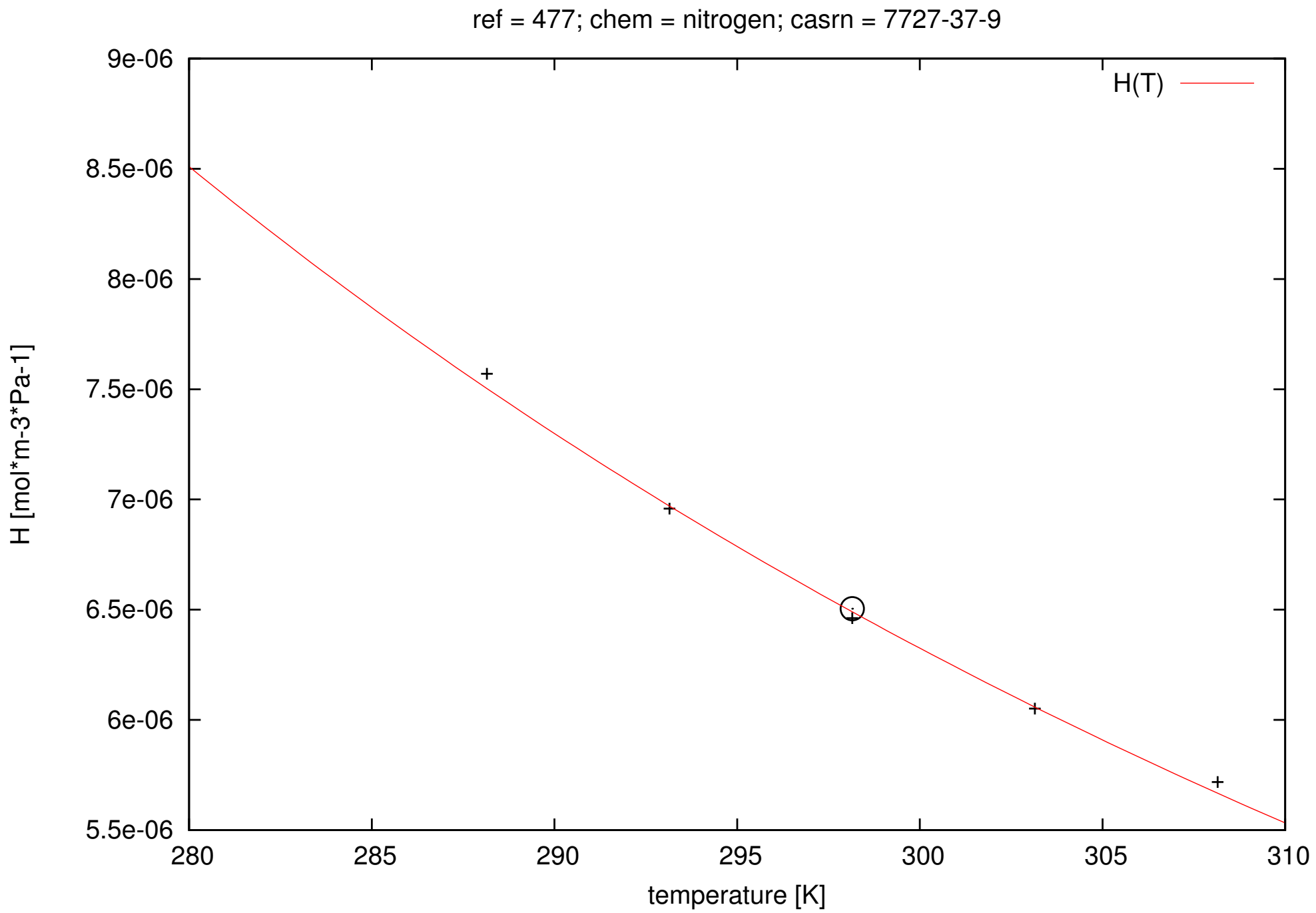

ref = 477; chem = sulfur dioxide; casrn = 7446-09-5
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
280
285
290
295
300
305
310

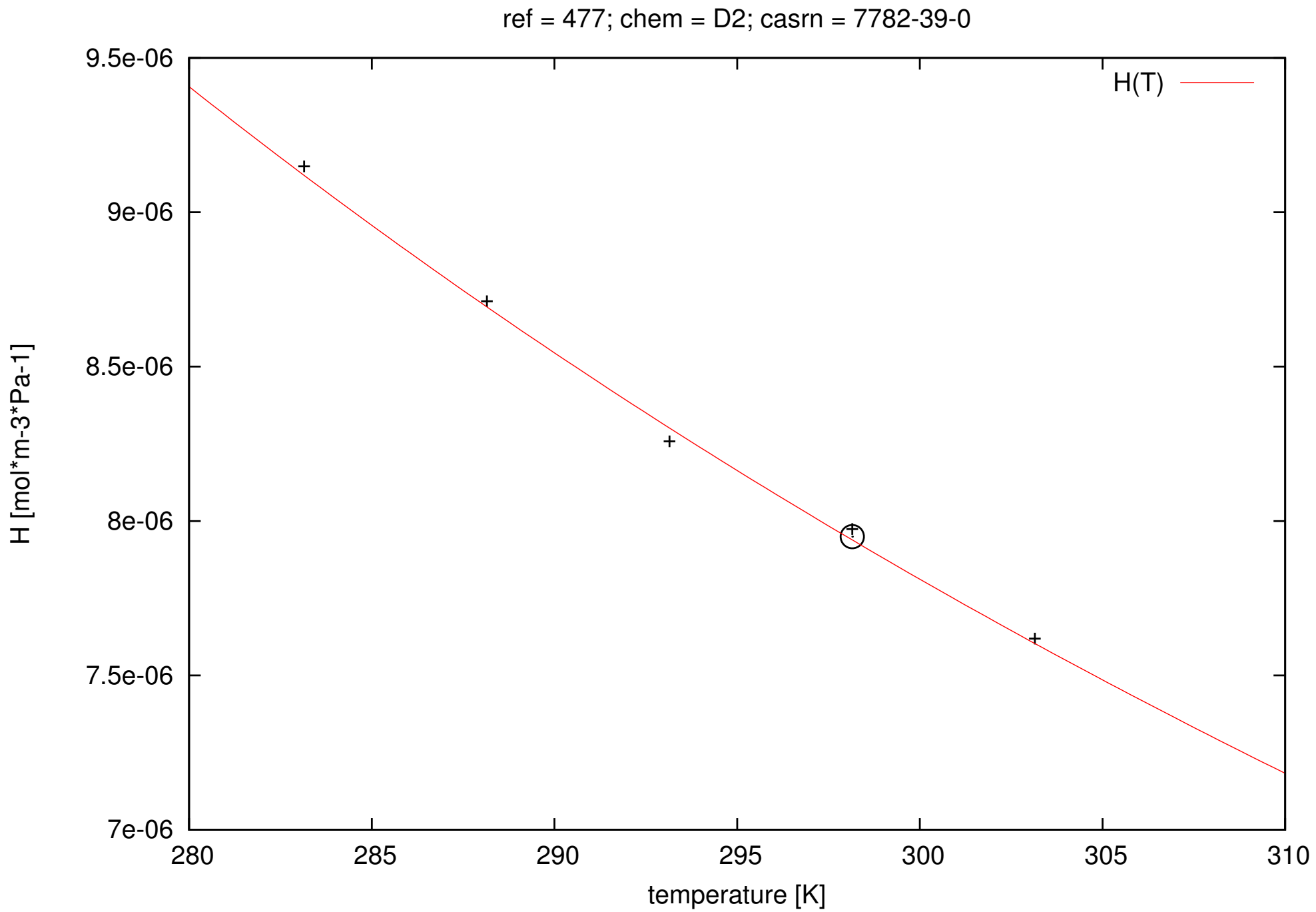

ref = 477; chem = methane; casrn = 74-82-8
H(T)
H [mol*m-3*Pa-1]
temperature [K]
2e-05
1.9e-05
1.8e-05
1.7e-05
1.6e-05
1.5e-05
1.4e-05
1.3e-05
1.2e-05
1.1e-05
280
285
290
295
300
305
310

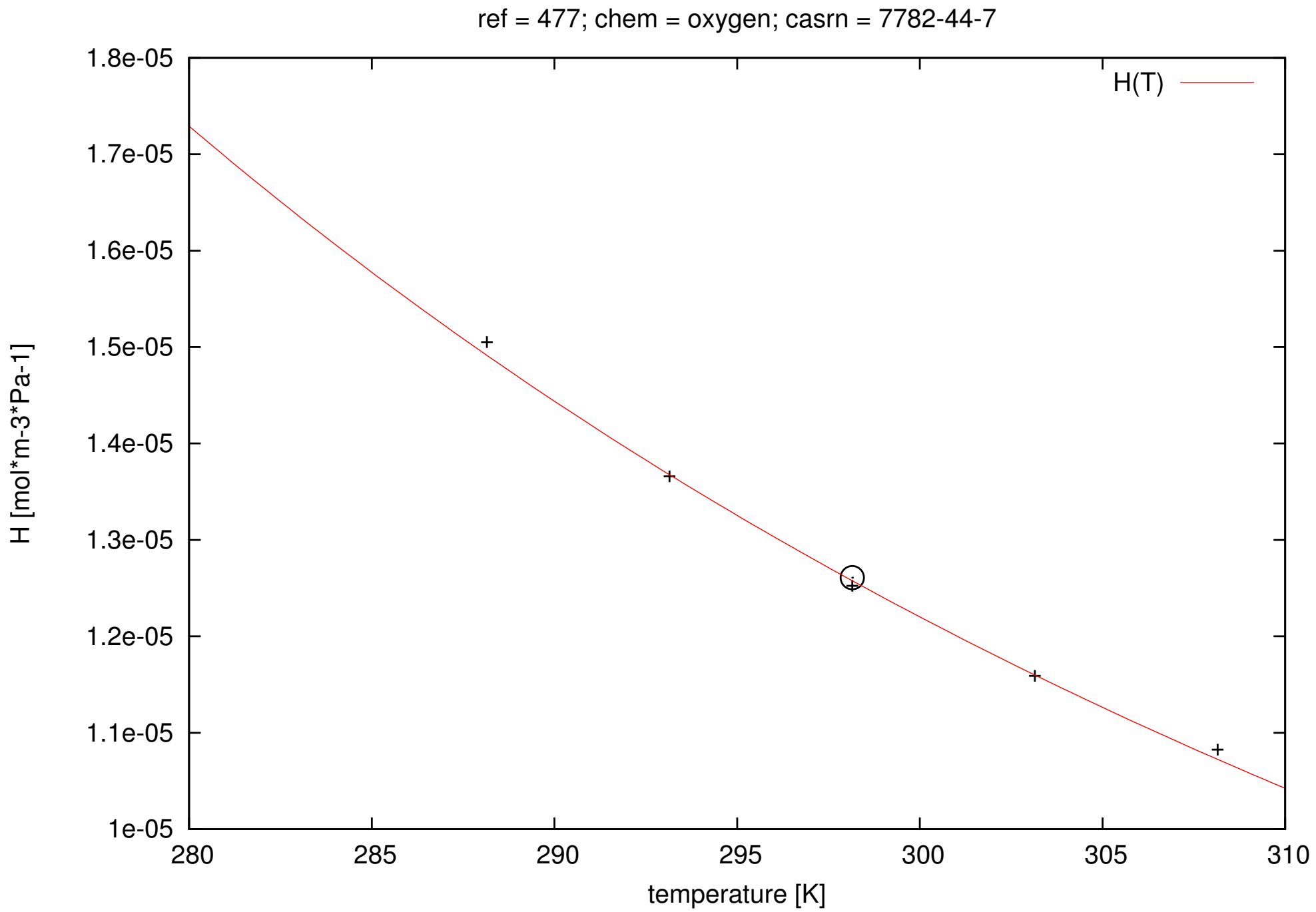

ref = 477; chem = ethane; casrn = 74-84-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
3.2e-05
3e-05
2.8e-05
2.6e-05
2.4e-05
2.2e-05
2e-05
1.8e-05
1.6e-05
1.4e-05
1.2e-05
280
285
290
295
300
305
310

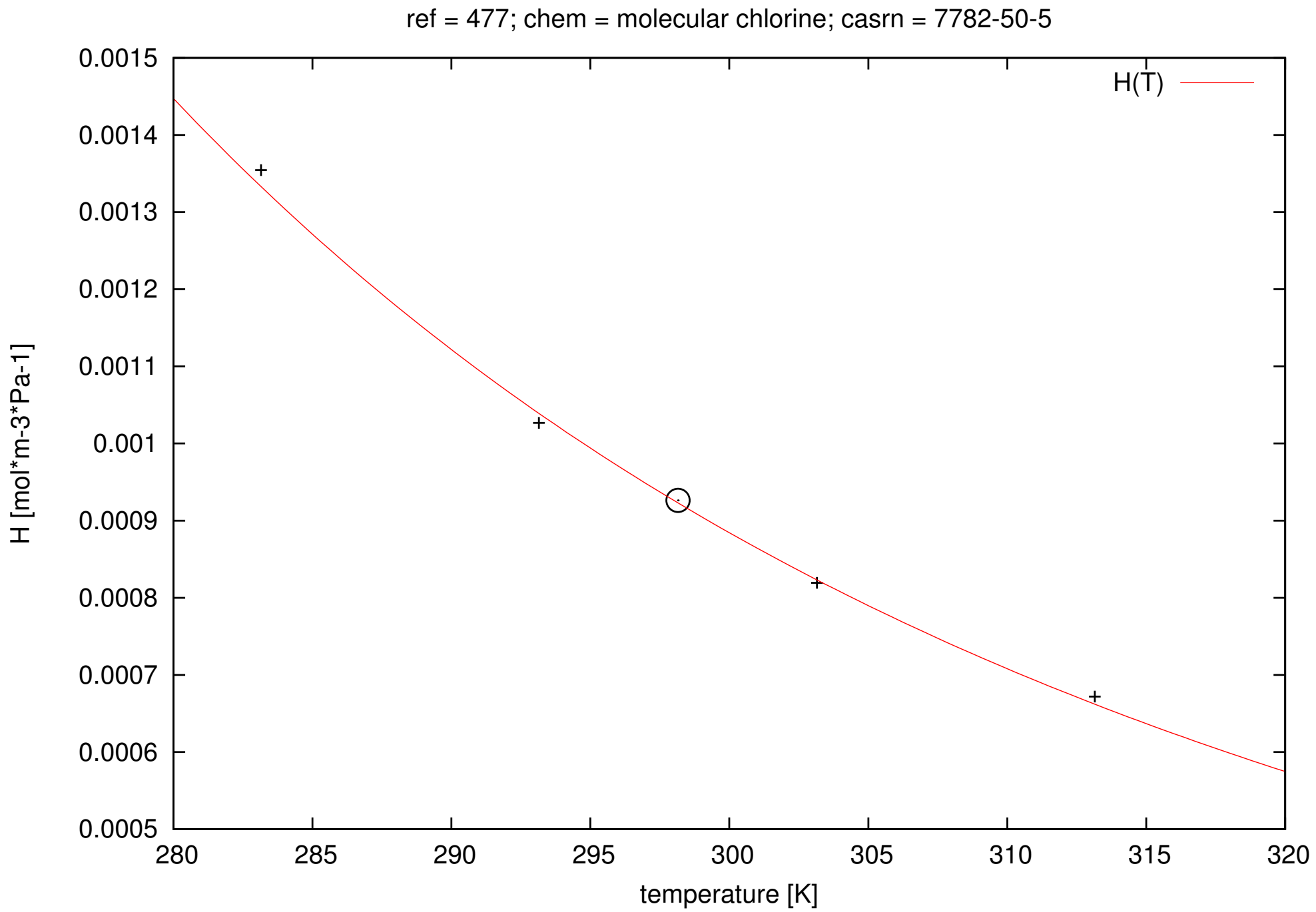

ref = 477; chem = propane; casrn = 74-98-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
2.8e-05
2.6e-05
2.4e-05
2.2e-05
2e-05
1.8e-05
1.6e-05
1.4e-05
1.2e-05
1e-05
280
285
290
295
300
305
310

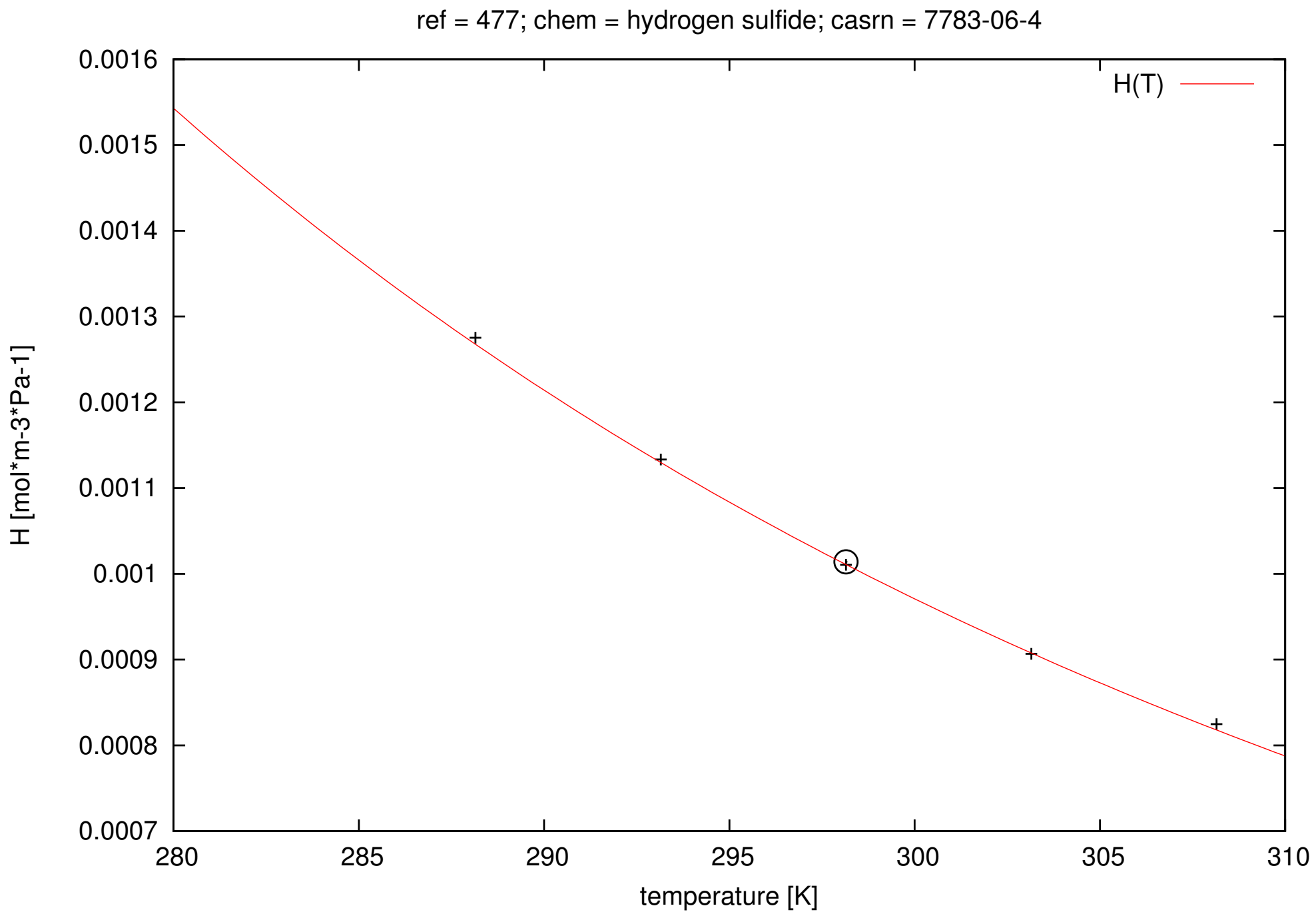

ref = 477; chem = 2-methylpropane; casrn = 75-28-5
H(T)
H [mol*m-3*Pa-1]
temperature [K]
1.7e-05
1.6e-05
1.5e-05
1.4e-05
1.3e-05
1.2e-05
1.1e-05
1e-05
9e-06
8e-06
7e-06
6e-06
280
285
290
295
300
305
310

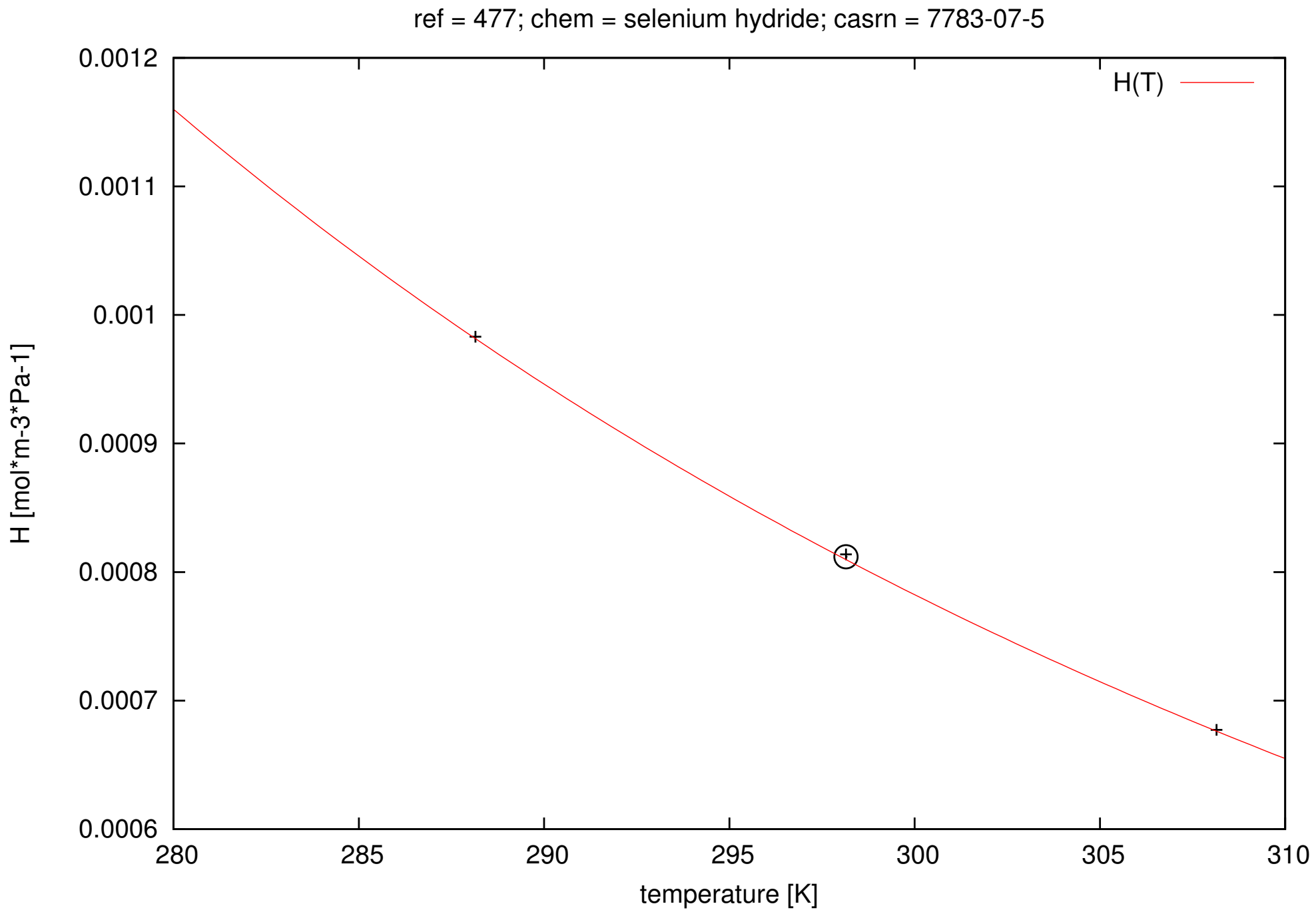

ref = 477; chem = nitrogen; casrn = 7727-37-9
H(T)
H [mol*m-3*Pa-1]
temperature [K]
9e-06
8.5e-06
8e-06
7.5e-06
7e-06
6.5e-06
6e-06
5.5e-06
280
285
290
295
300
305
310

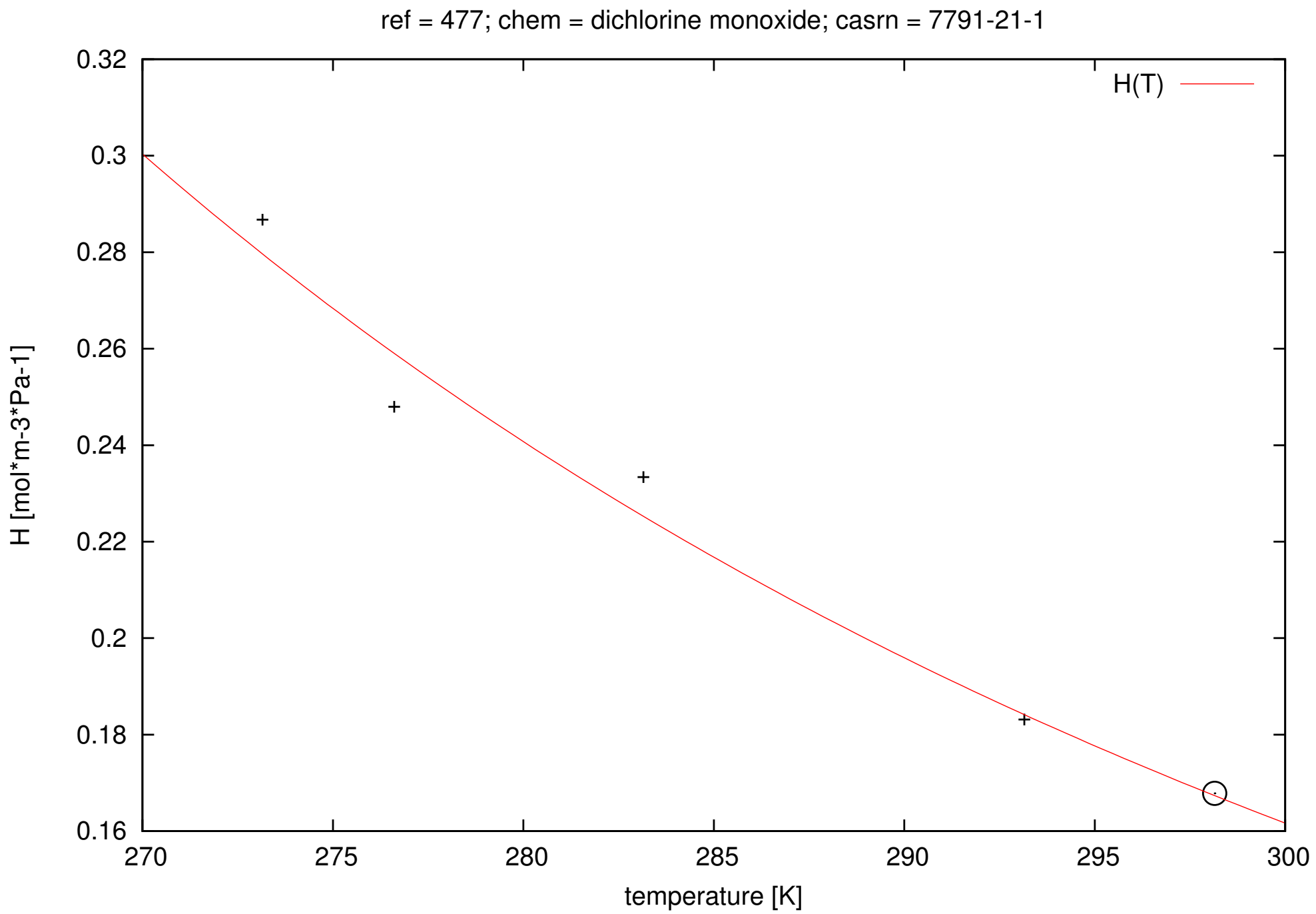

ref = 477; chem = D2; casrn = 7782-39-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
9.5e-06
9e-06
8.5e-06
8e-06
7.5e-06
7e-06
280
285
290
295
300
305
310

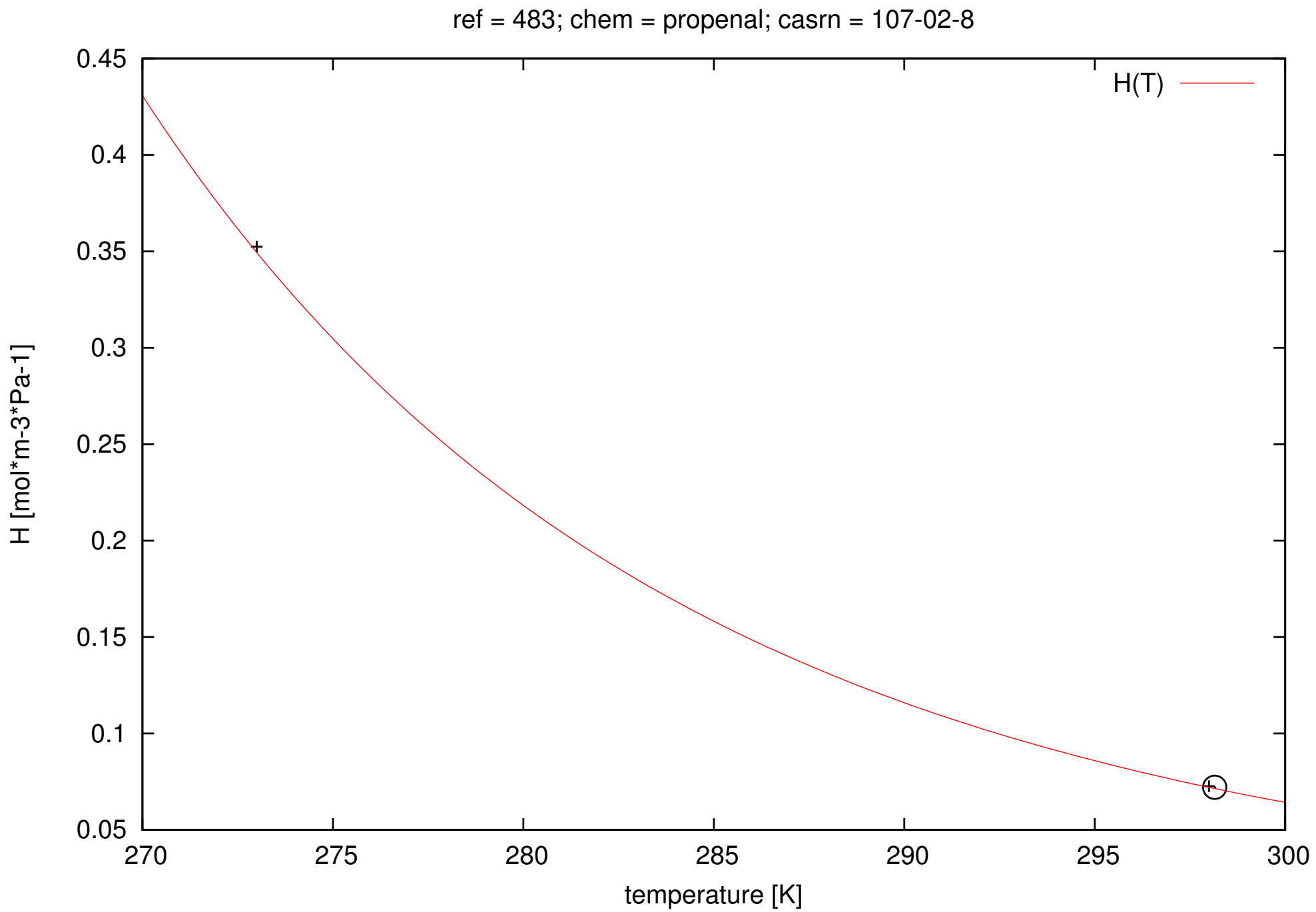

ref = 477; chem = oxygen; casrn = 7782-44-7
H(T)
H [mol*m-3*Pa-1]
temperature [K]
1.8e-05
1.7e-05
1.6e-05
1.5e-05
1.4e-05
1.3e-05
1.2e-05
1.1e-05
1e-05
280
285
290
295
300
305
310

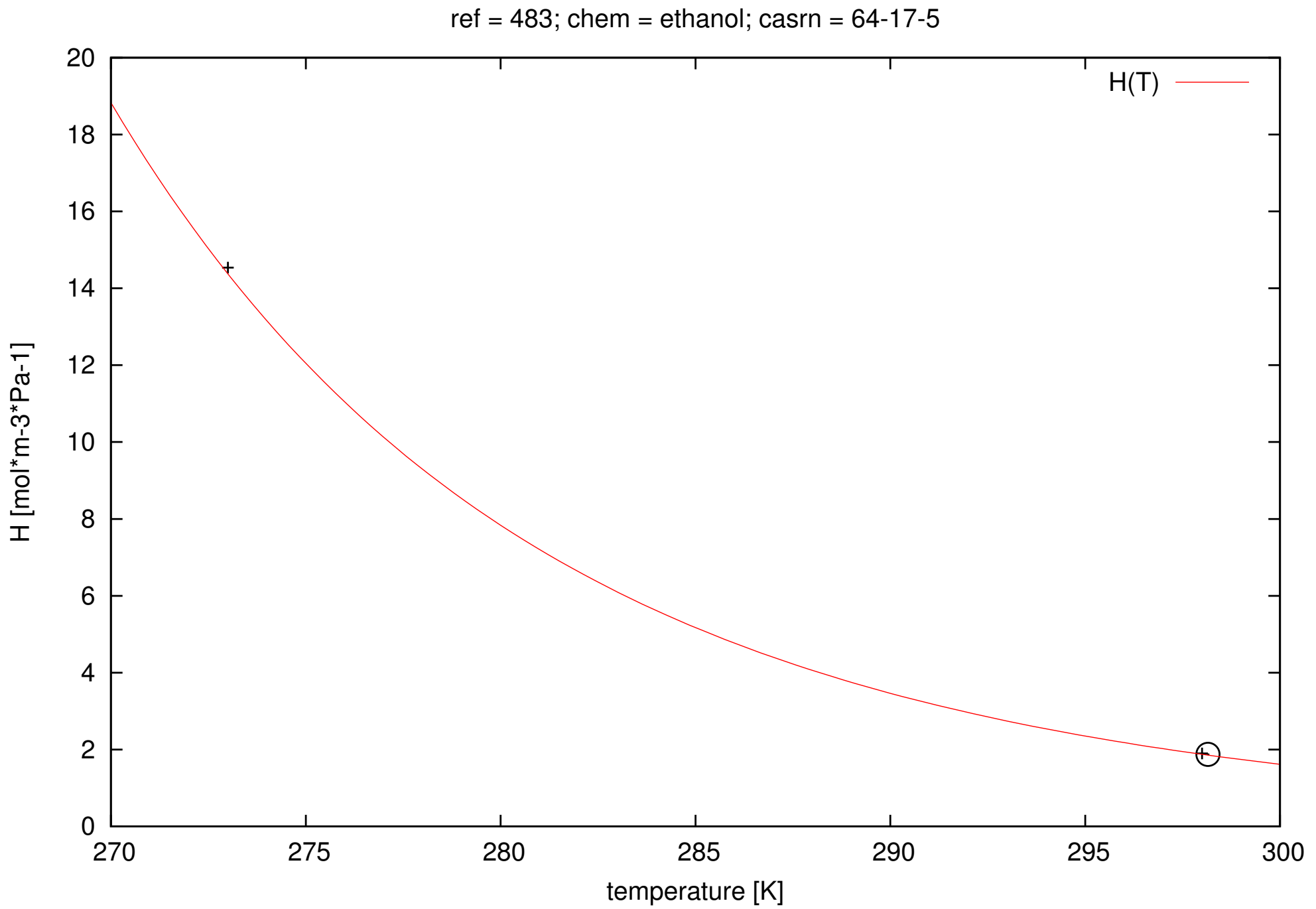

ref = 477; chem = molecular chlorine; casrn = 7782-50-5
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0015
0.0014
0.0013
0.0012
0.0011
0.001
0.0009
0.0008
0.0007
0.0006
0.0005
280
285
290
295
300
305
310
315
320

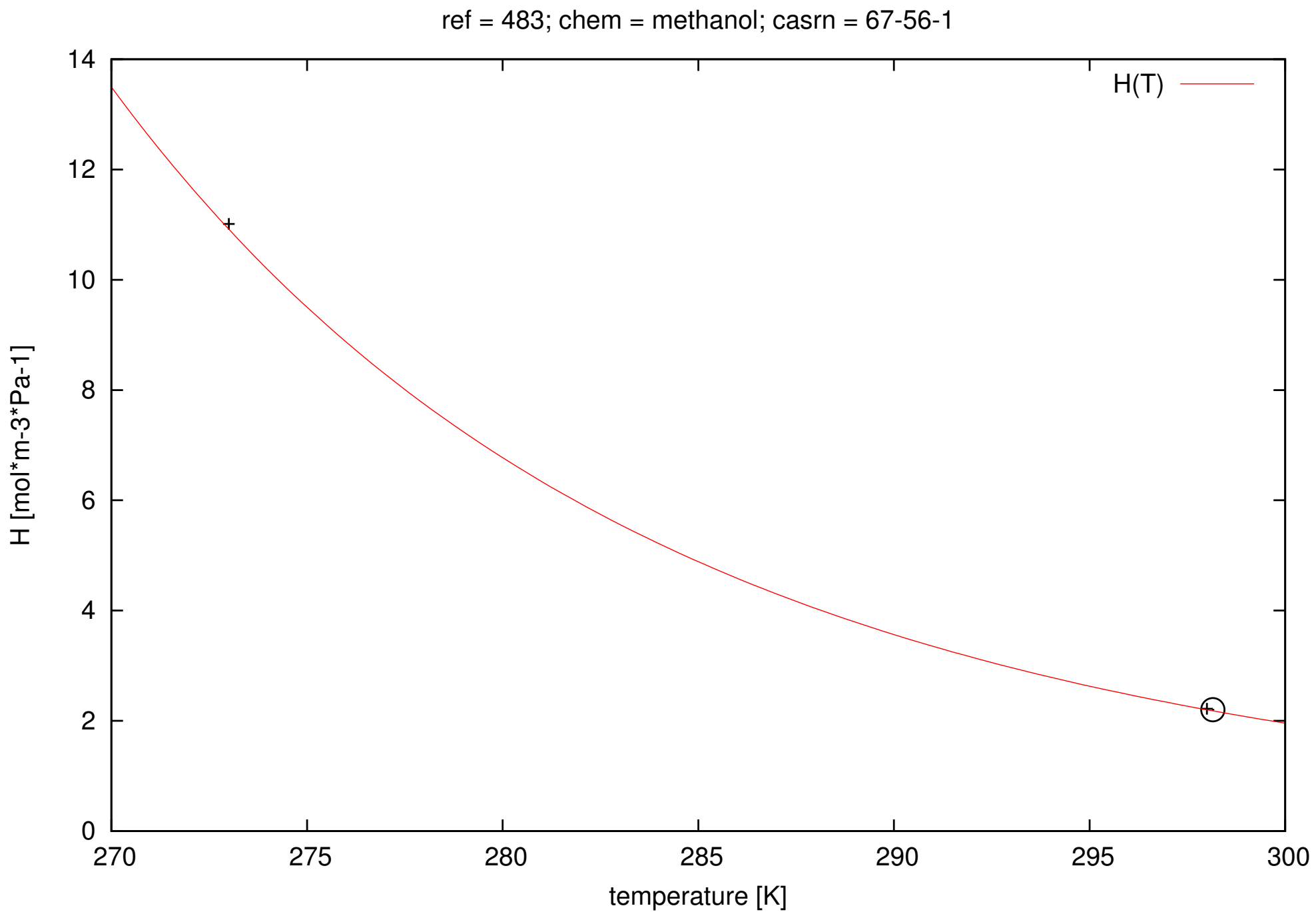

ref = 477; chem = hydrogen sulfide; casrn = 7783-06-4
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0016
0.0015
0.0014
0.0013
0.0012
0.0011
0.001
0.0009
0.0008
0.0007
280
285
290
295
300
305
310

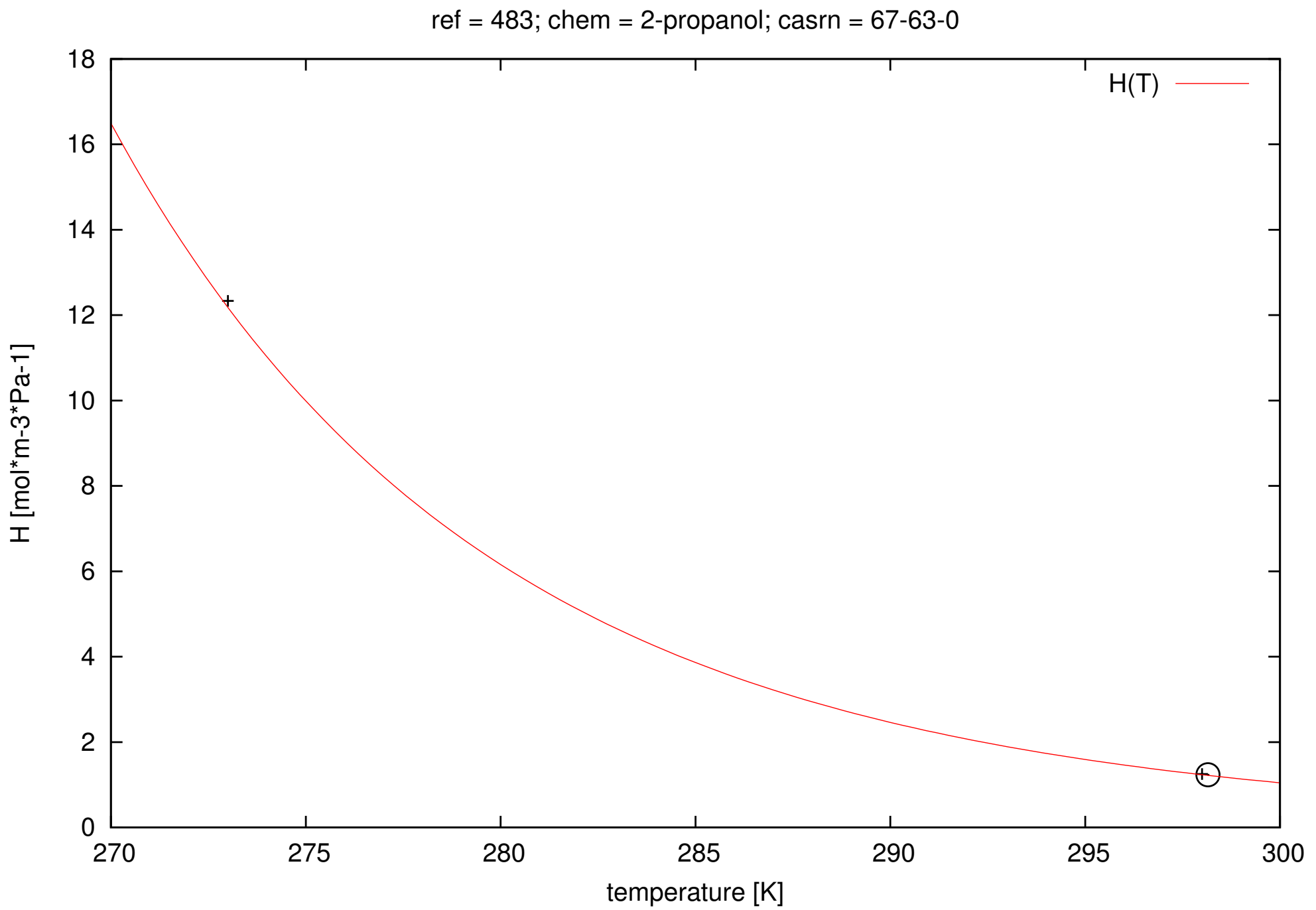

ref = 477; chem = selenium hydride; casrn = 7783-07-5
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0012
0.0011
0.001
0.0009
0.0008
0.0007
0.0006
280
285
290
295
300
305
310

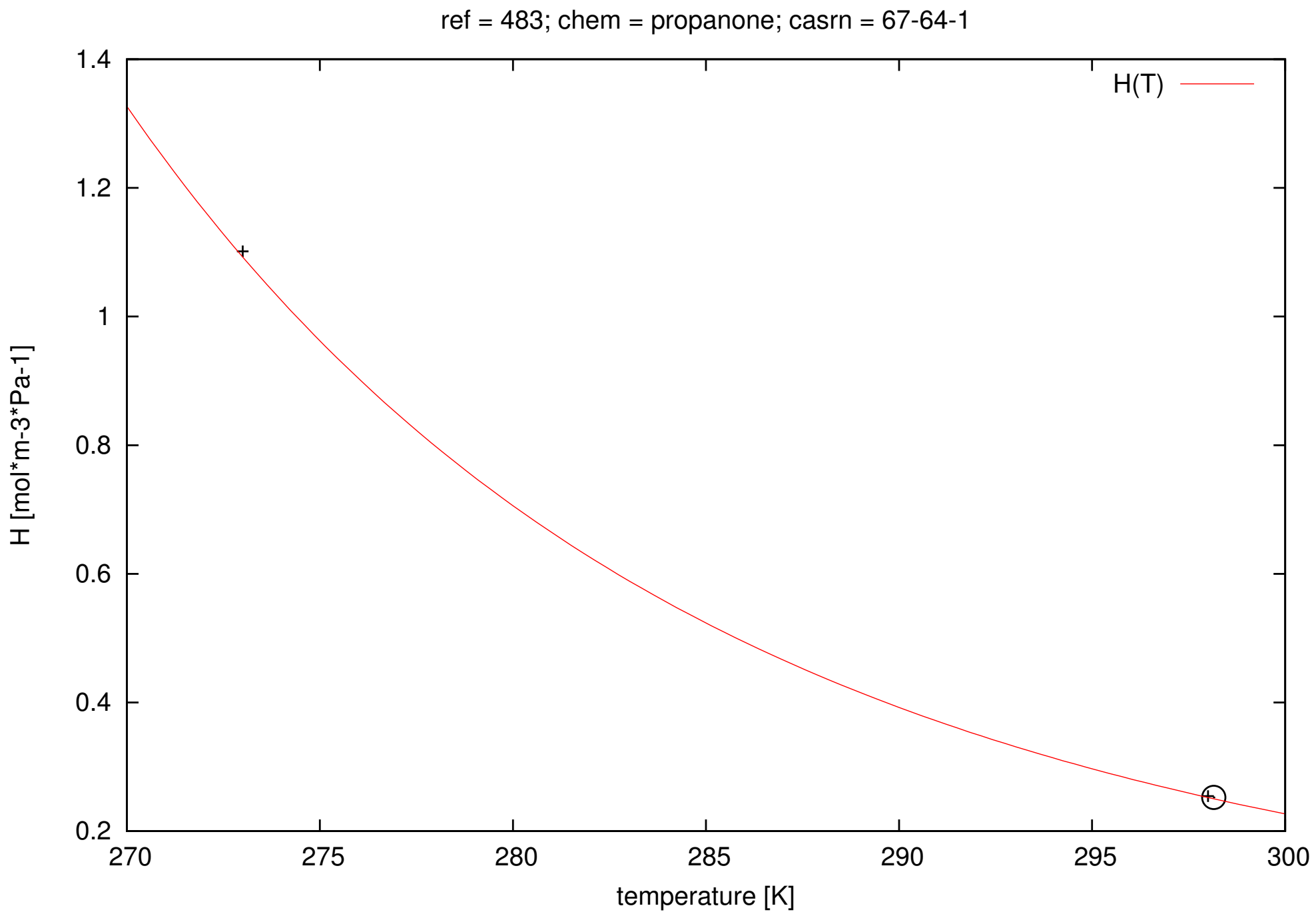

ref = 477; chem = dichlorine monoxide; casrn = 7791-21-1
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.32
0.3
0.28
0.26
0.24
0.22
0.2
0.18
0.16
270
275
280
285
290
295
300

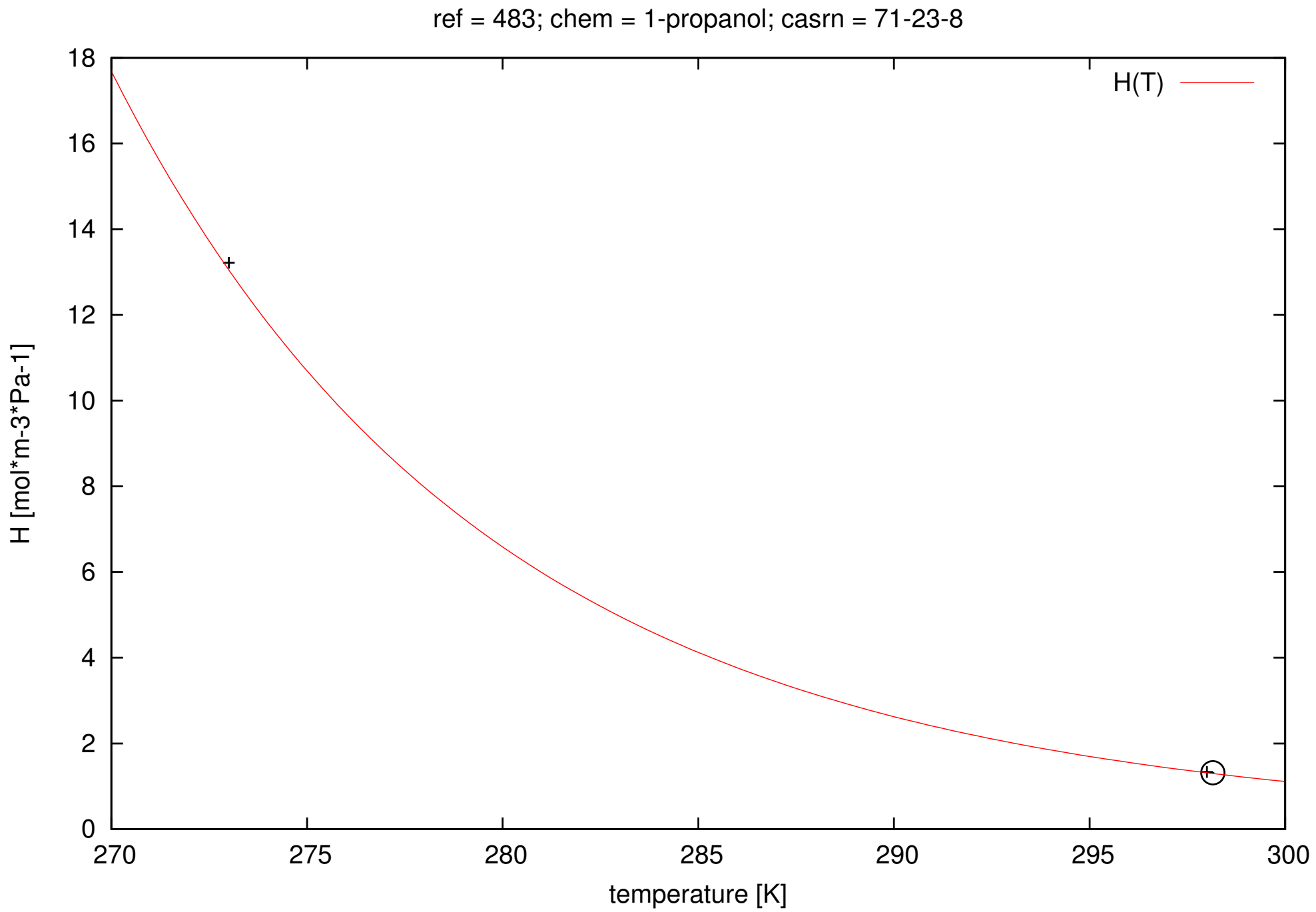

ref = 483; chem = propenal; casrn = 107-02-8
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
270
275
280
285
290
295
300

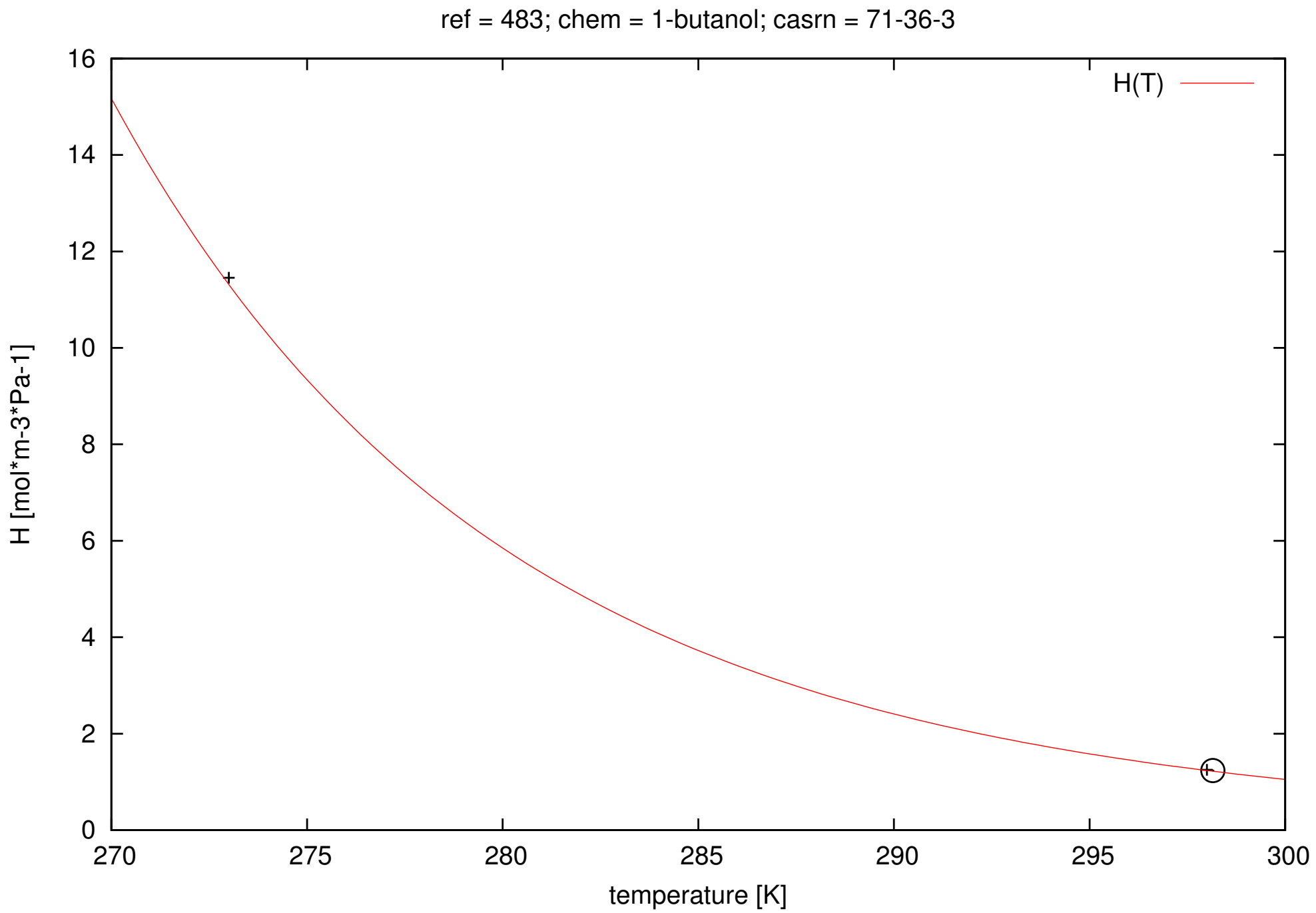

ref = 483; chem = ethanol; casrn = 64-17-5
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0
2
4
6
8
10
12
14
16
18
20
270
275
280
285
290
295
300

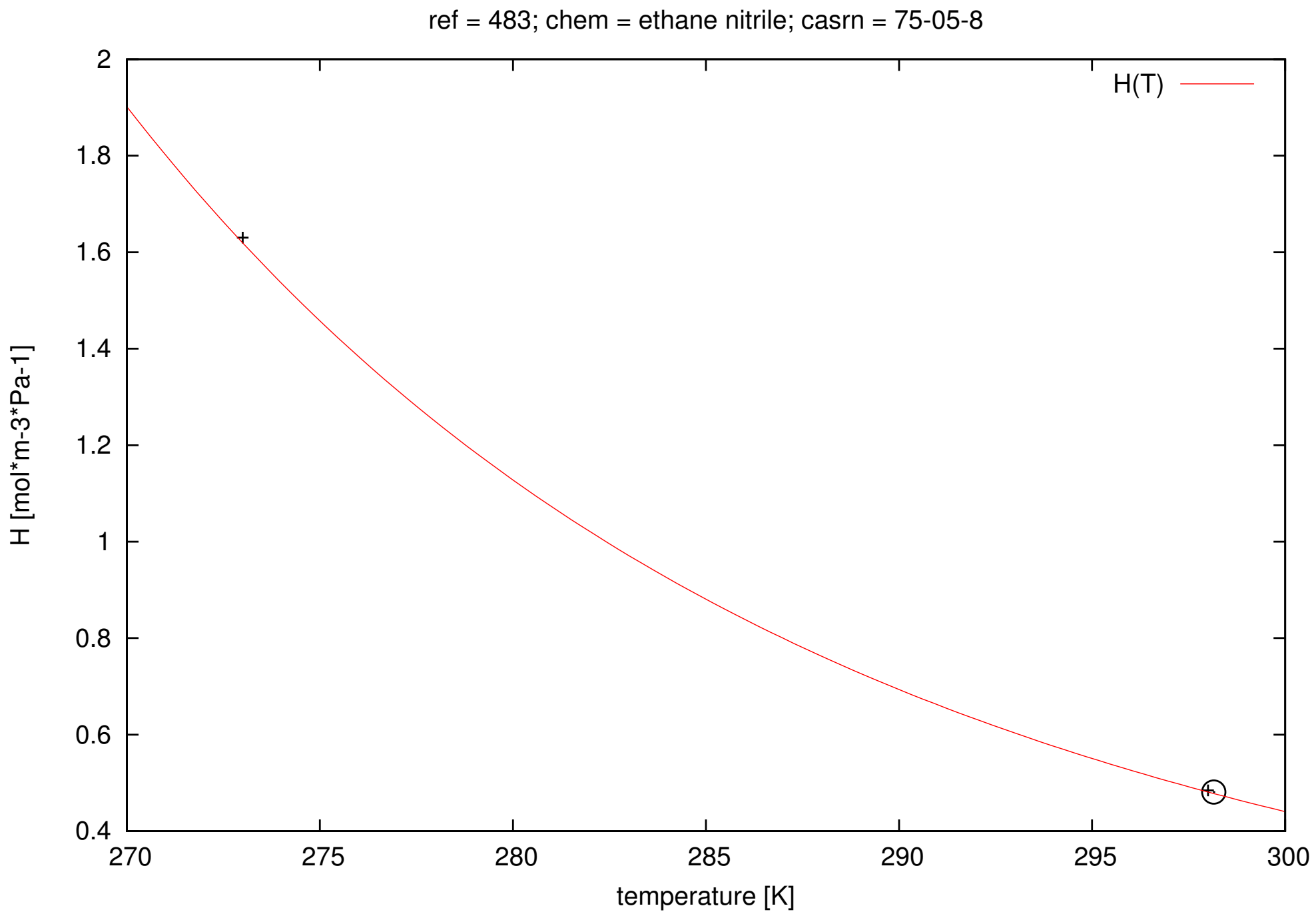

ref = 483; chem = methanol; casrn = 67-56-1
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0
2
4
6
8
10
12
14
270
275
280
285
290
295
300

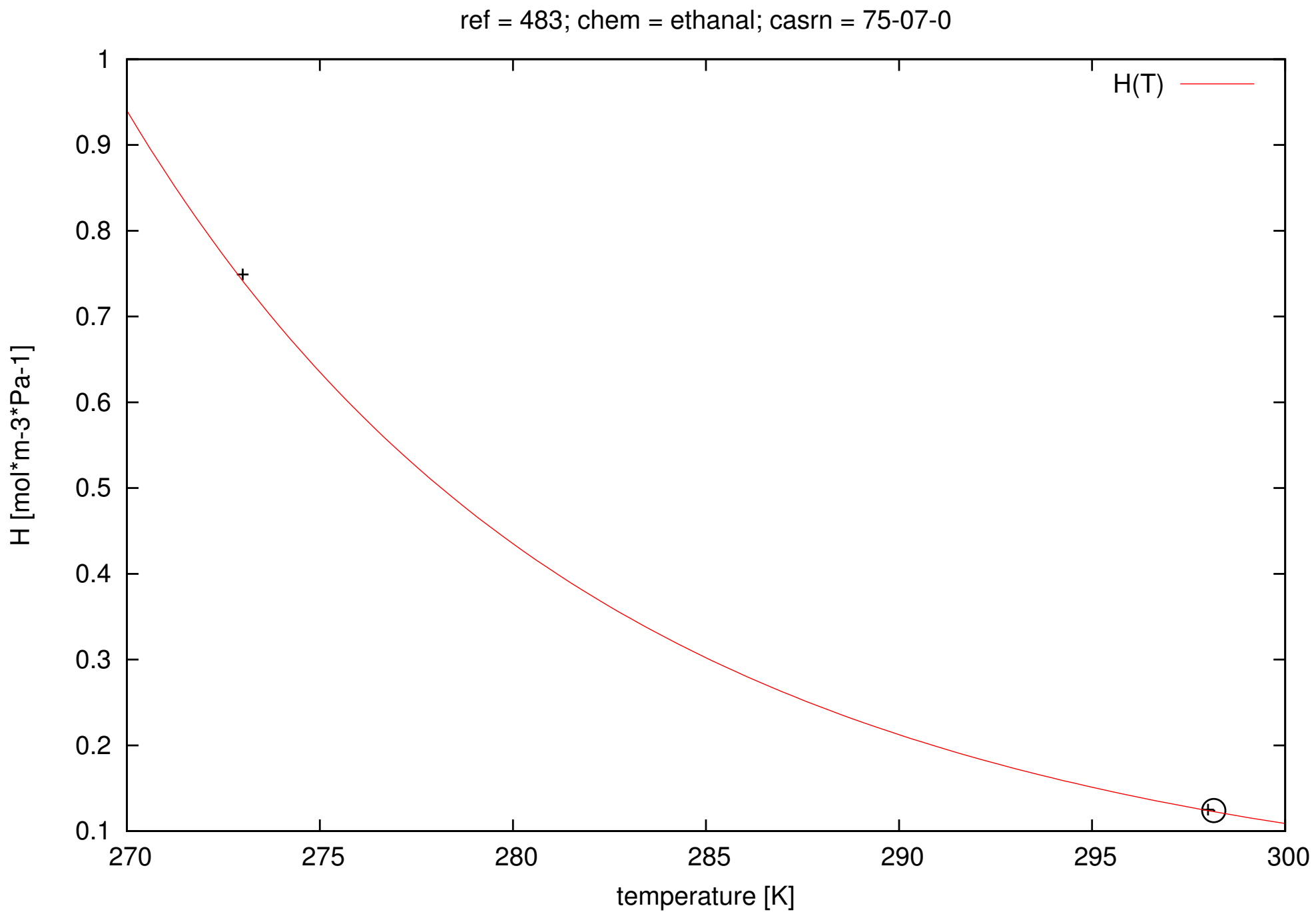

ref = 483; chem = 2-propanol; casrn = 67-63-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0
2
4
6
8
10
12
14
16
18
270
275
280
285
290
295
300

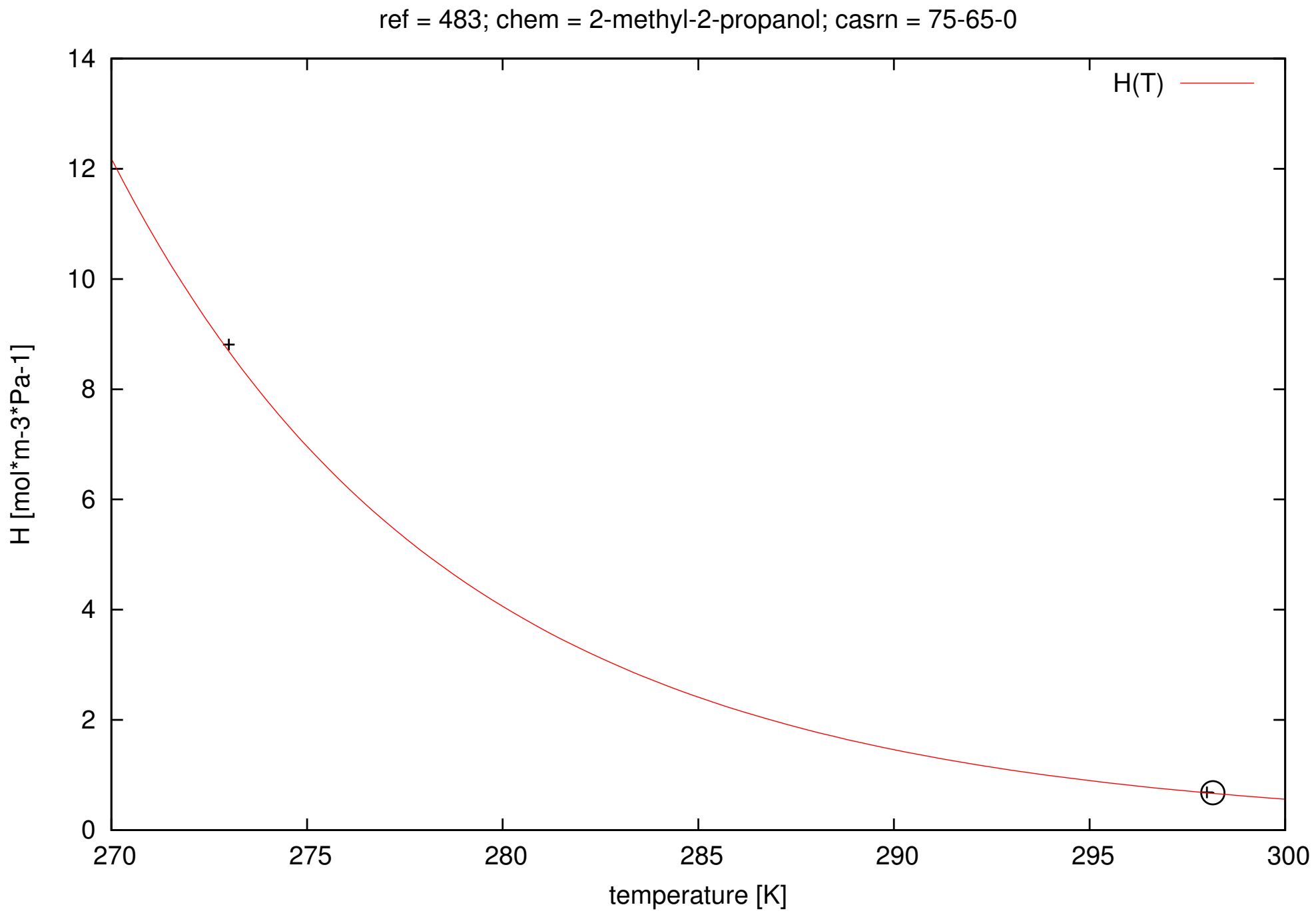

ref = 483; chem = propanone; casrn = 67-64-1
H(T)
H [mol*m-3*Pa-1]
temperature [K]
1.4
1.2
1
0.8
0.6
0.4
0.2
270
275
280
285
290
295
300

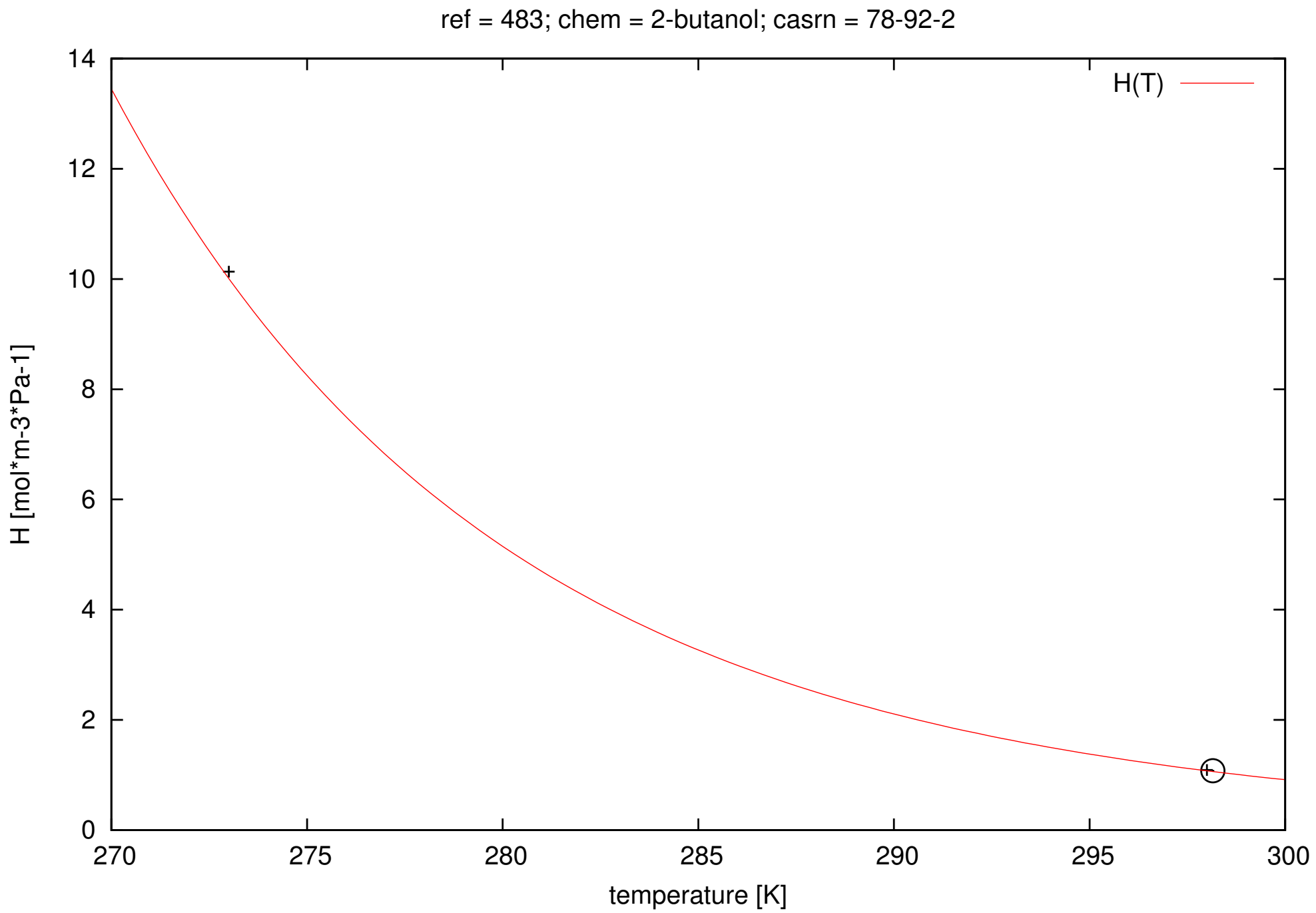

ref = 483; chem = 1-propanol; casrn = 71-23-8
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0
2
4
6
8
10
12
14
16
18
270
275
280
285
290
295
300

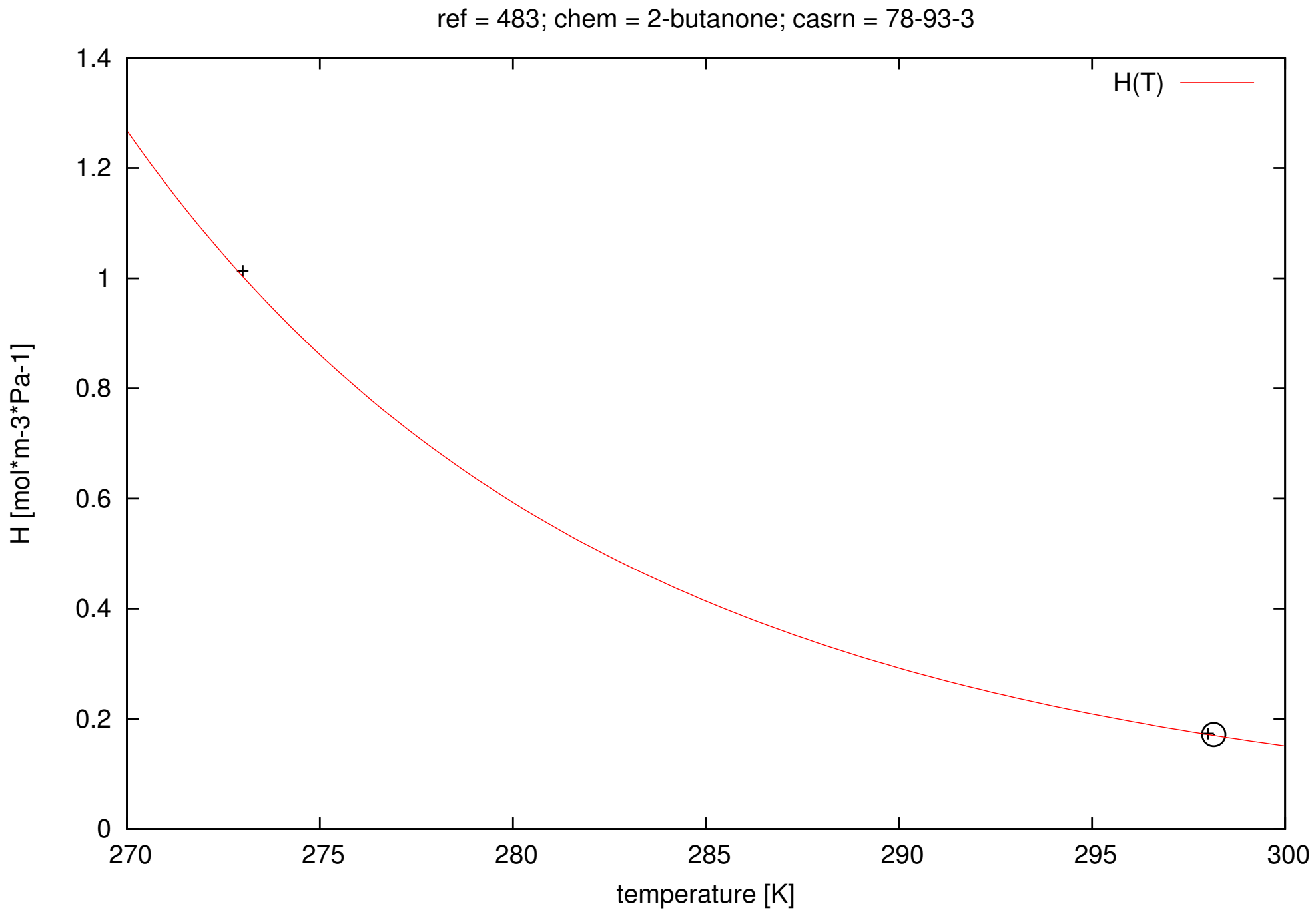

ref = 483; chem = 1-butanol; casrn = 71-36-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0
2
4
6
8
10
12
14
16
270
275
280
285
290
295
300

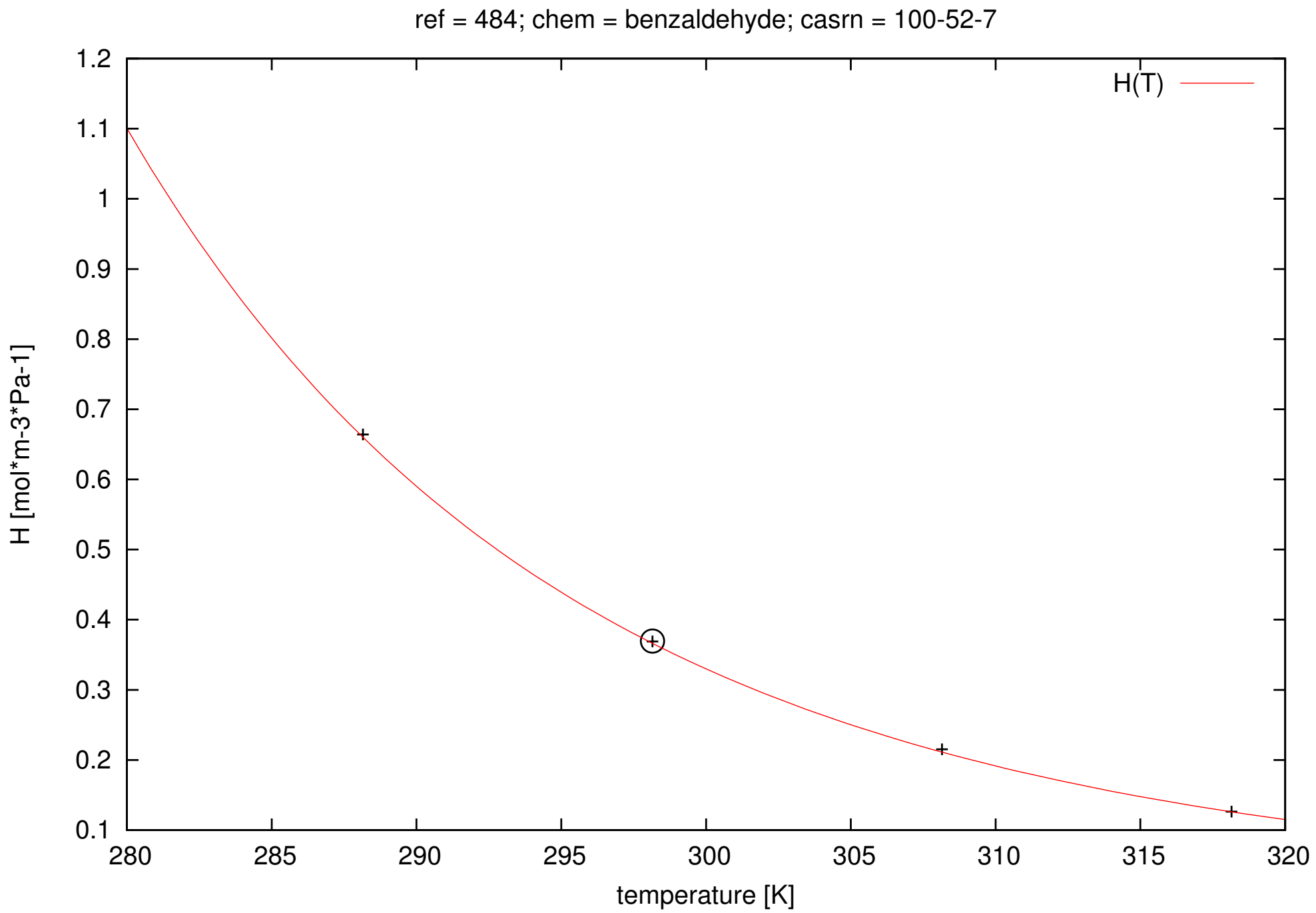

ref = 483; chem = ethane nitrile; casrn = 75-05-8
H(T)
H [mol*m-3*Pa-1]
temperature [K]
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
270
275
280
285
290
295
300

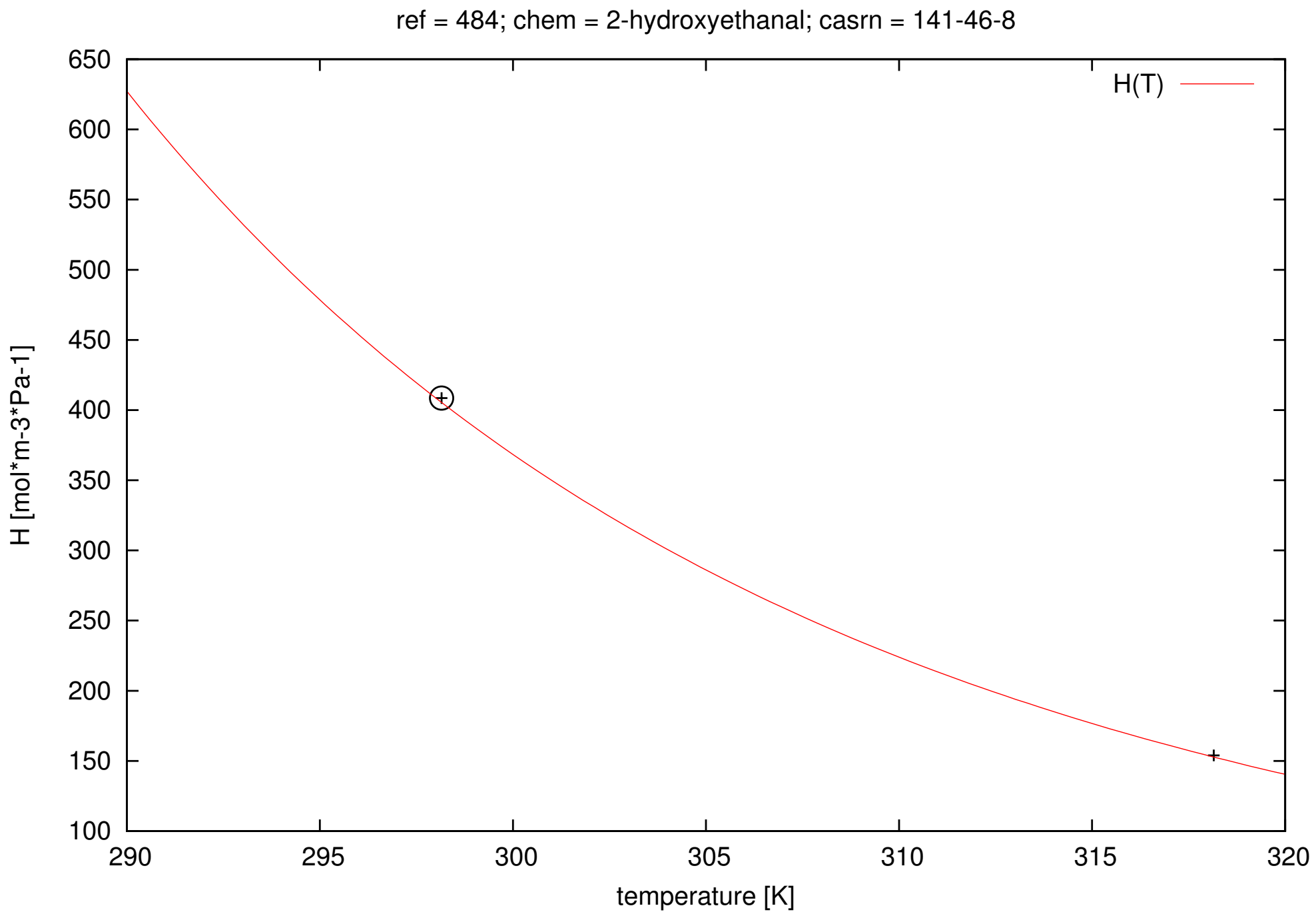

ref = 483; chem = ethanal; casrn = 75-07-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
270
275
280
285
290
295
300

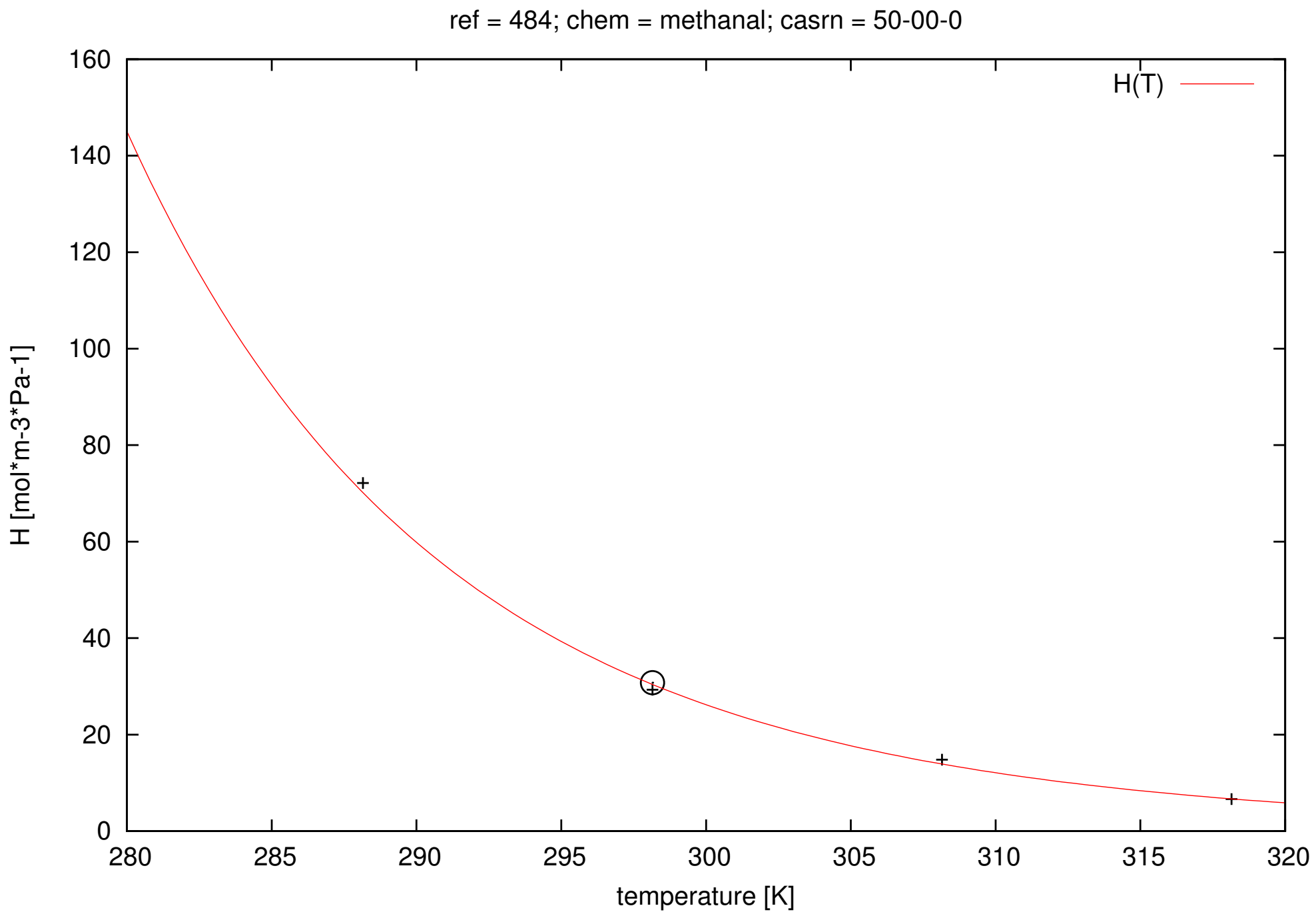

ref = 483; chem = 2-methyl-2-propanol; casrn = 75-65-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0
2
4
6
8
10
12
14
270
275
280
285
290
295
300

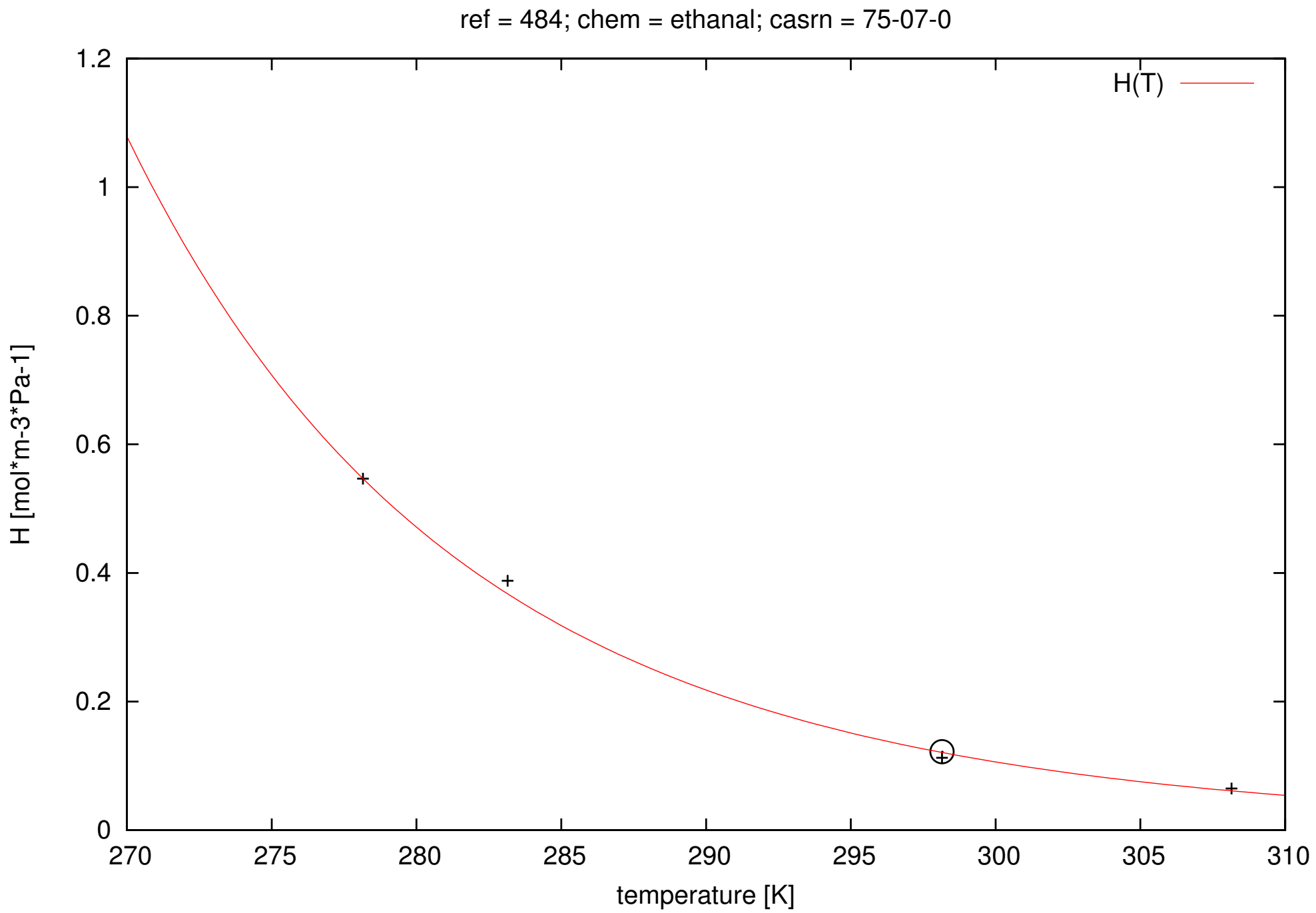

ref = 483; chem = 2-butanol; casrn = 78-92-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0
2
4
6
8
10
12
14
270
275
280
285
290
295
300

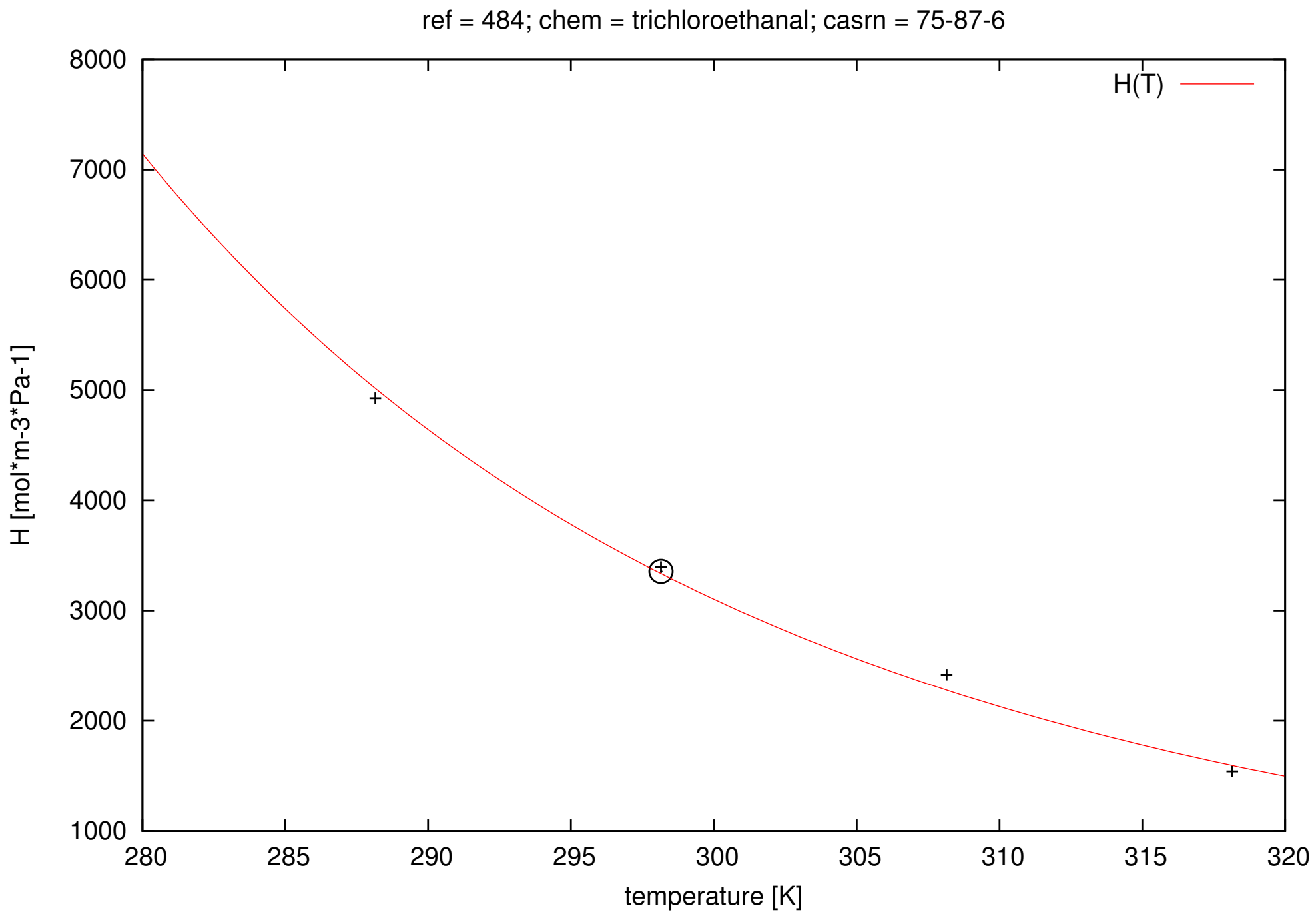

ref = 483; chem = 2-butanone; casrn = 78-93-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
1.4
1.2
1
0.8
0.6
0.4
0.2
0
270
275
280
285
290
295
300

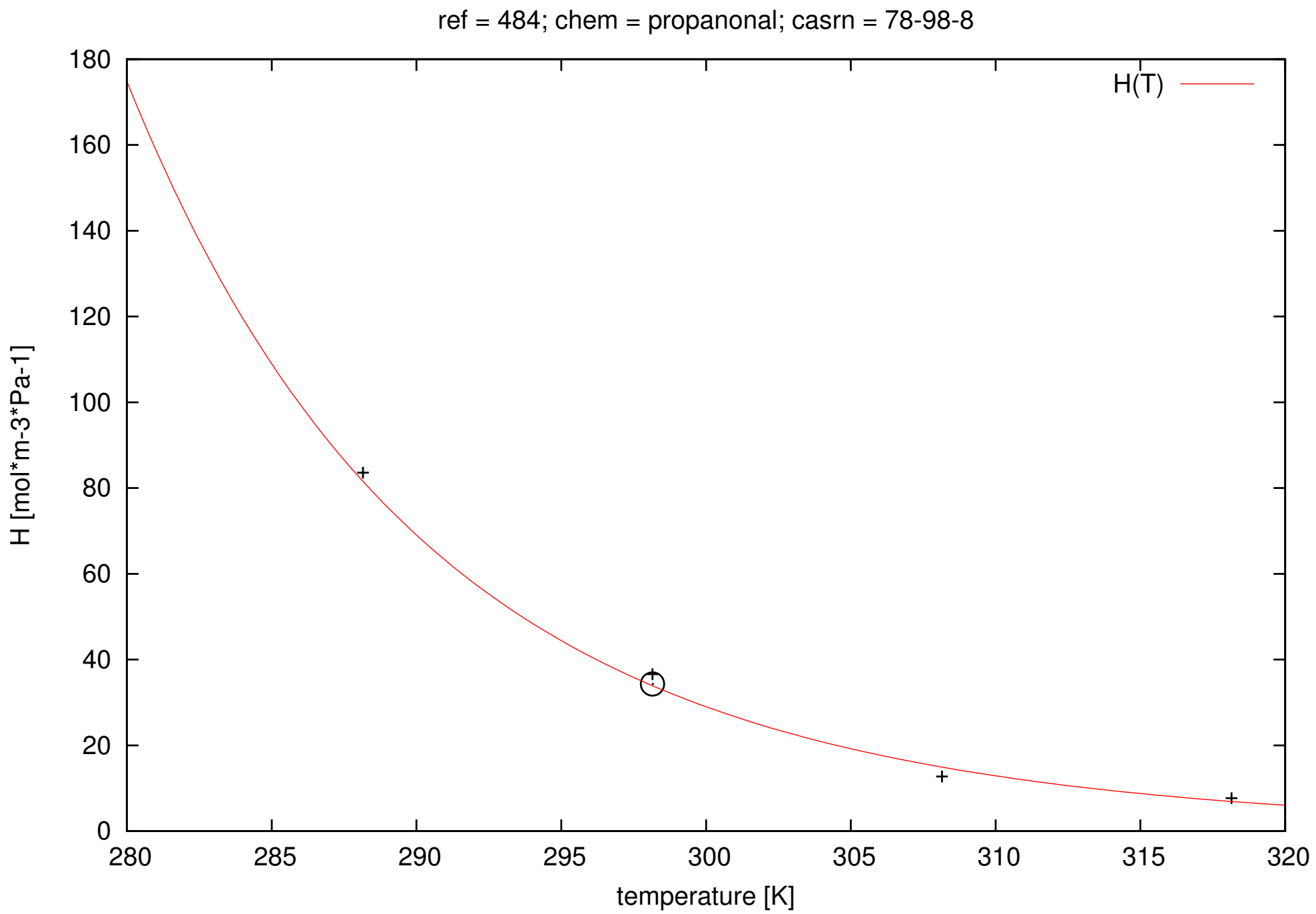

ref = 484; chem = benzaldehyde; casrn = 100-52-7
H(T)
H [mol*m-3*Pa-1]
temperature [K]
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
280
285
290
295
300
305
310
315
320

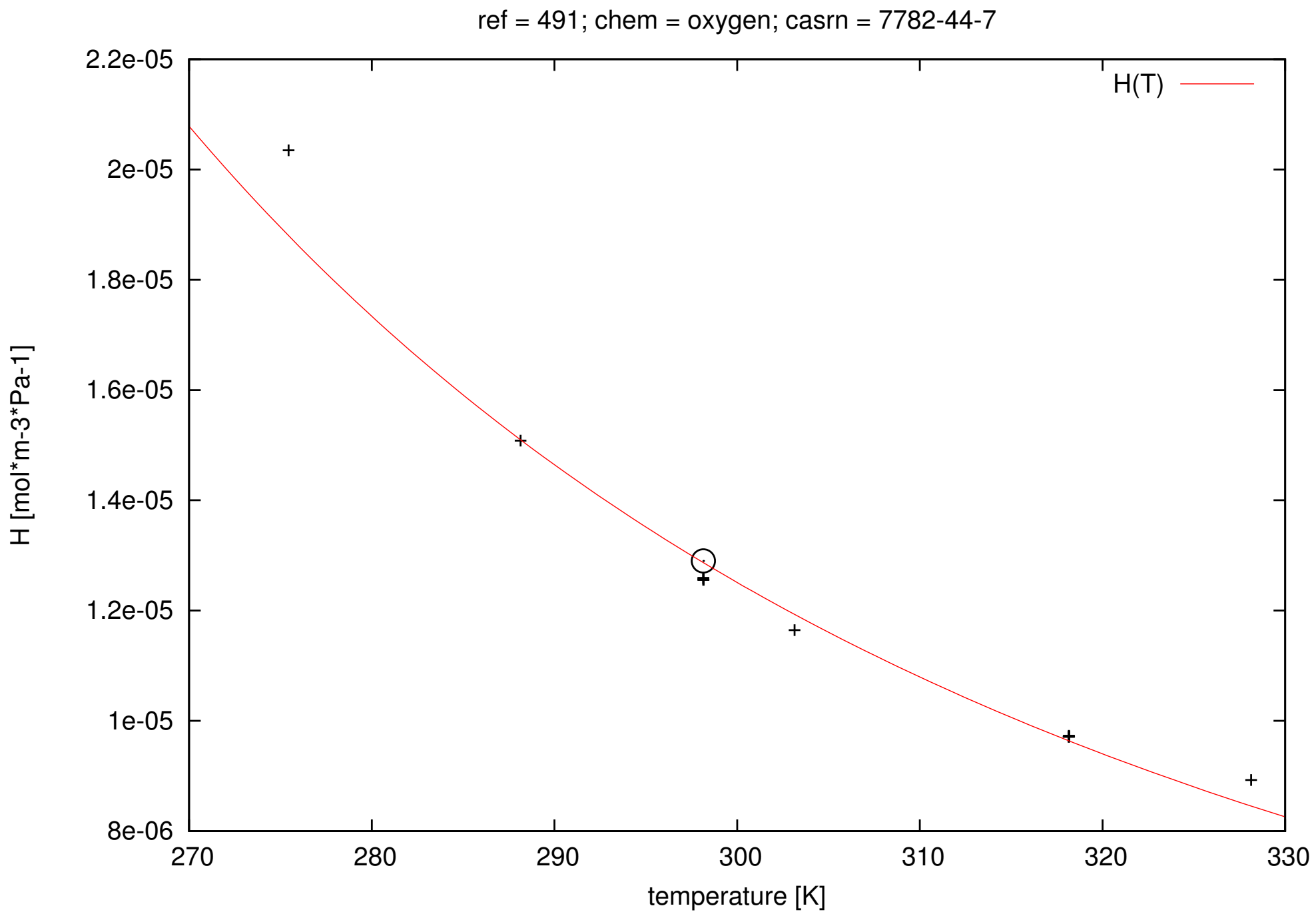

ref = 484; chem = 2-hydroxyethanal; casrn = 141-46-8
H(T)
H [mol*m-3*Pa-1]
temperature [K]
650
600
550
500
450
400
350
300
250
200
150
100
290
295
300
305
310
315
320

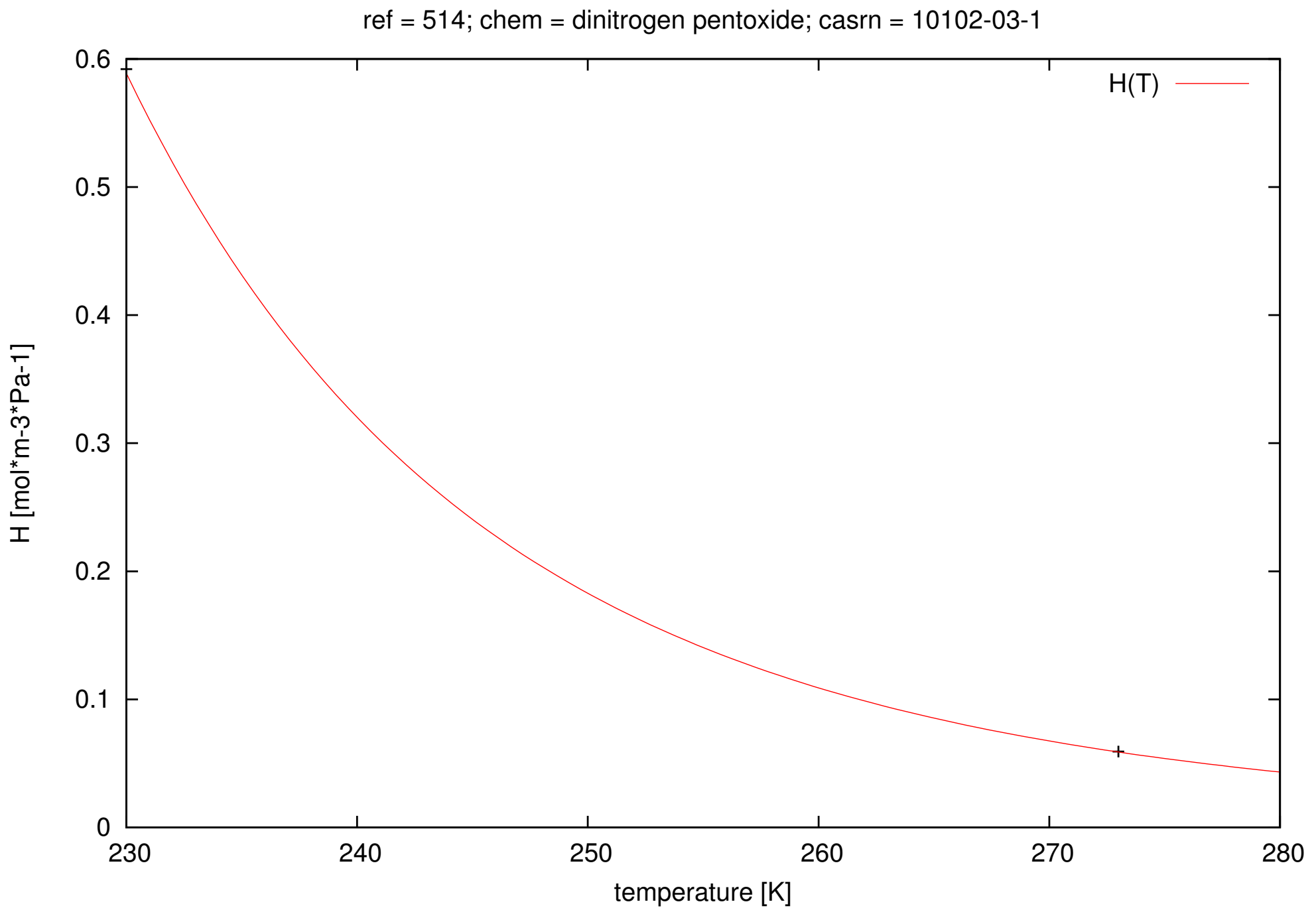

ref = 484; chem = methanal; casrn = 50-00-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
160
140
120
100
80
60
40
20
0
280
285
290
295
300
305
310
315
320

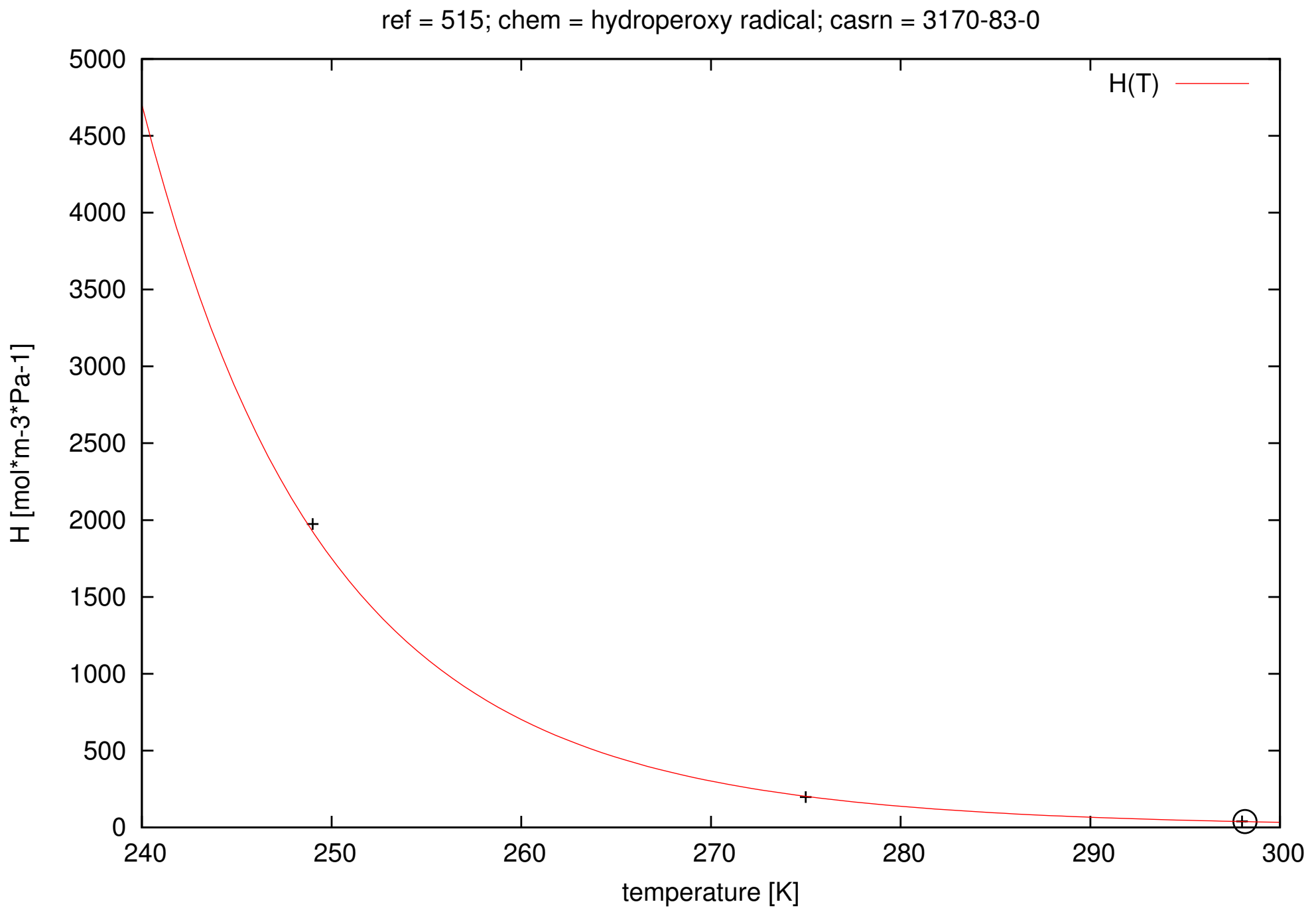

ref = 484; chem = ethanal; casrn = 75-07-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
1.2
1
0.8
0.6
0.4
0.2
0
270
275
280
285
290
295
300
305
310

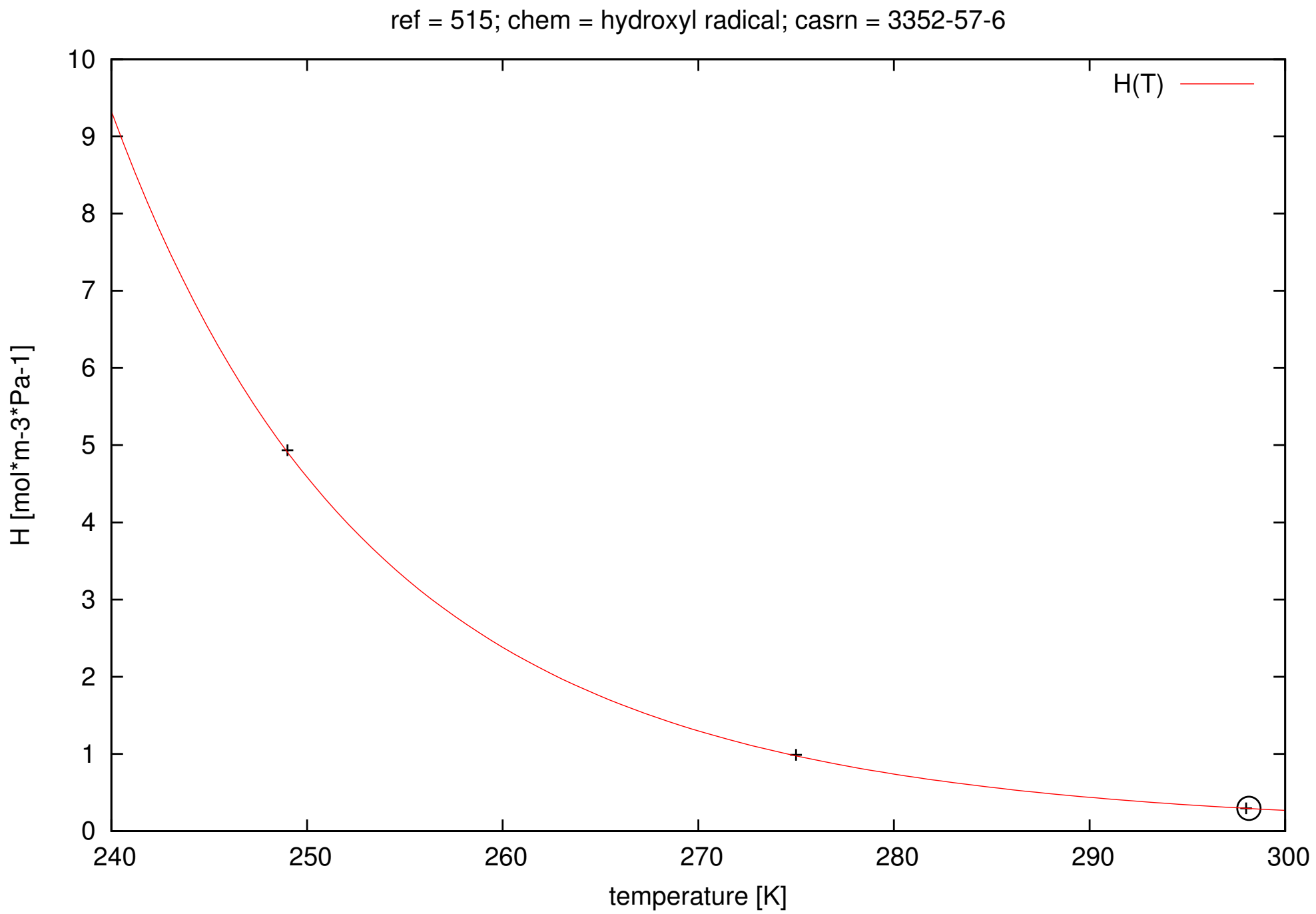

ref = 484; chem = trichloroethanal; casrn = 75-87-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
8000
7000
6000
5000
4000
3000
2000
1000
280
285
290
295
300
305
310
315
320

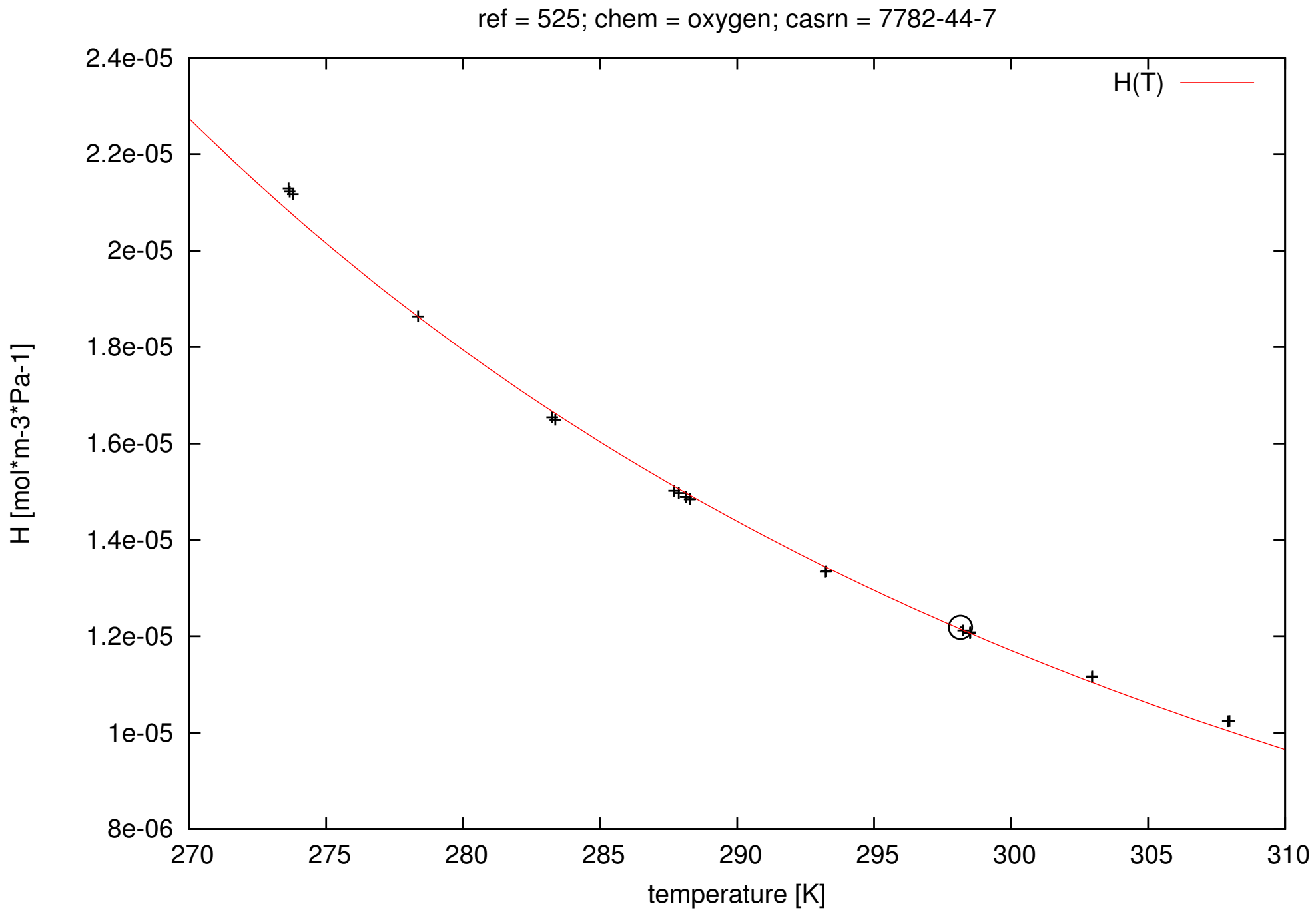

ref = 484; chem = propanonal; casrn = 78-98-8
H(T)
H [mol*m-3*Pa-1]
temperature [K]
180
160
140
120
100
80
60
40
20
0
280
285
290
295
300
305
310
315
320

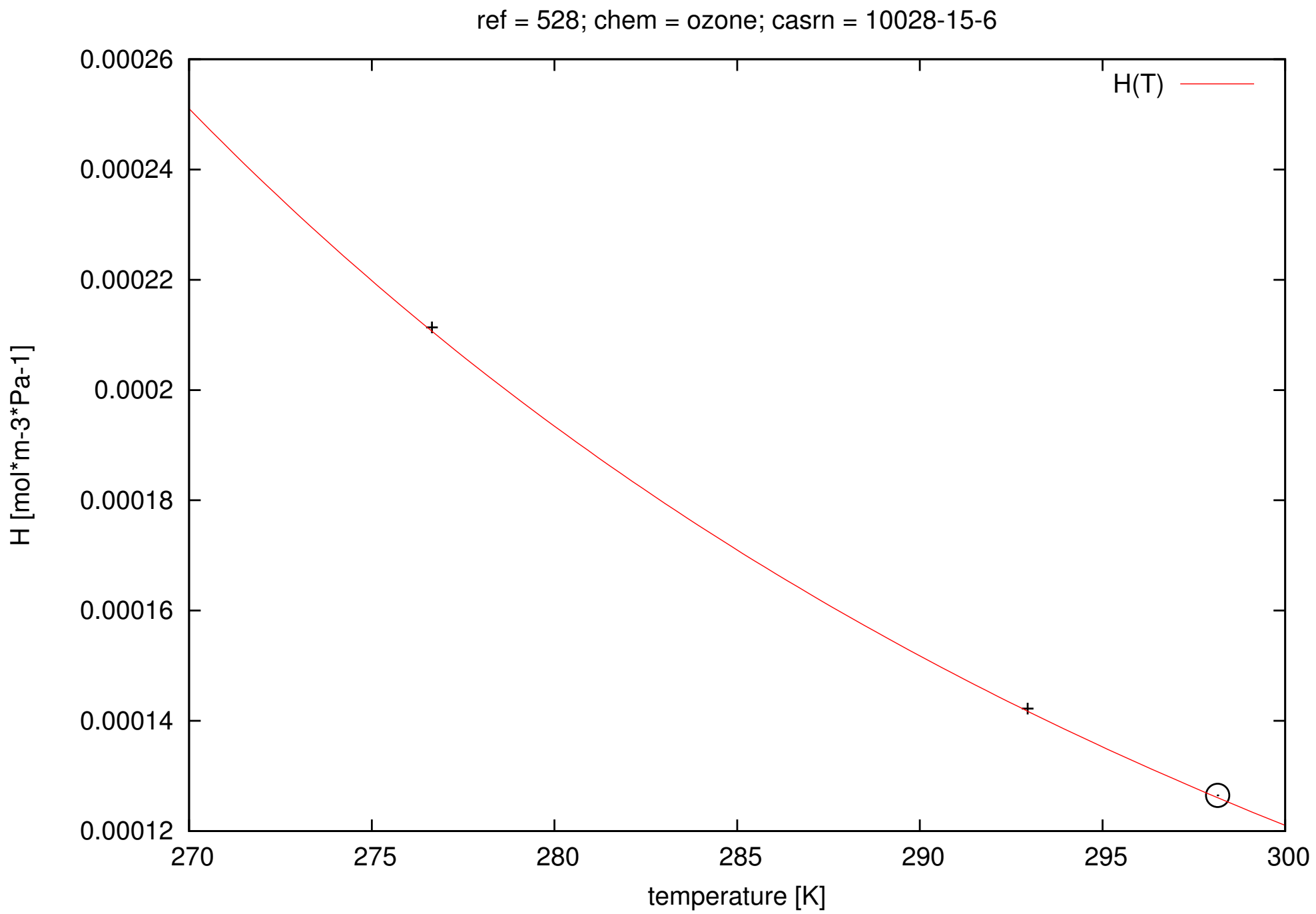

ref = 491; chem = oxygen; casrn = 7782-44-7
H(T)
H [mol*m-3*Pa-1]
temperature [K]
2.2e-05
2e-05
1.8e-05
1.6e-05
1.4e-05
1.2e-05
1e-05
8e-06
270
280
290
300
310
320
330

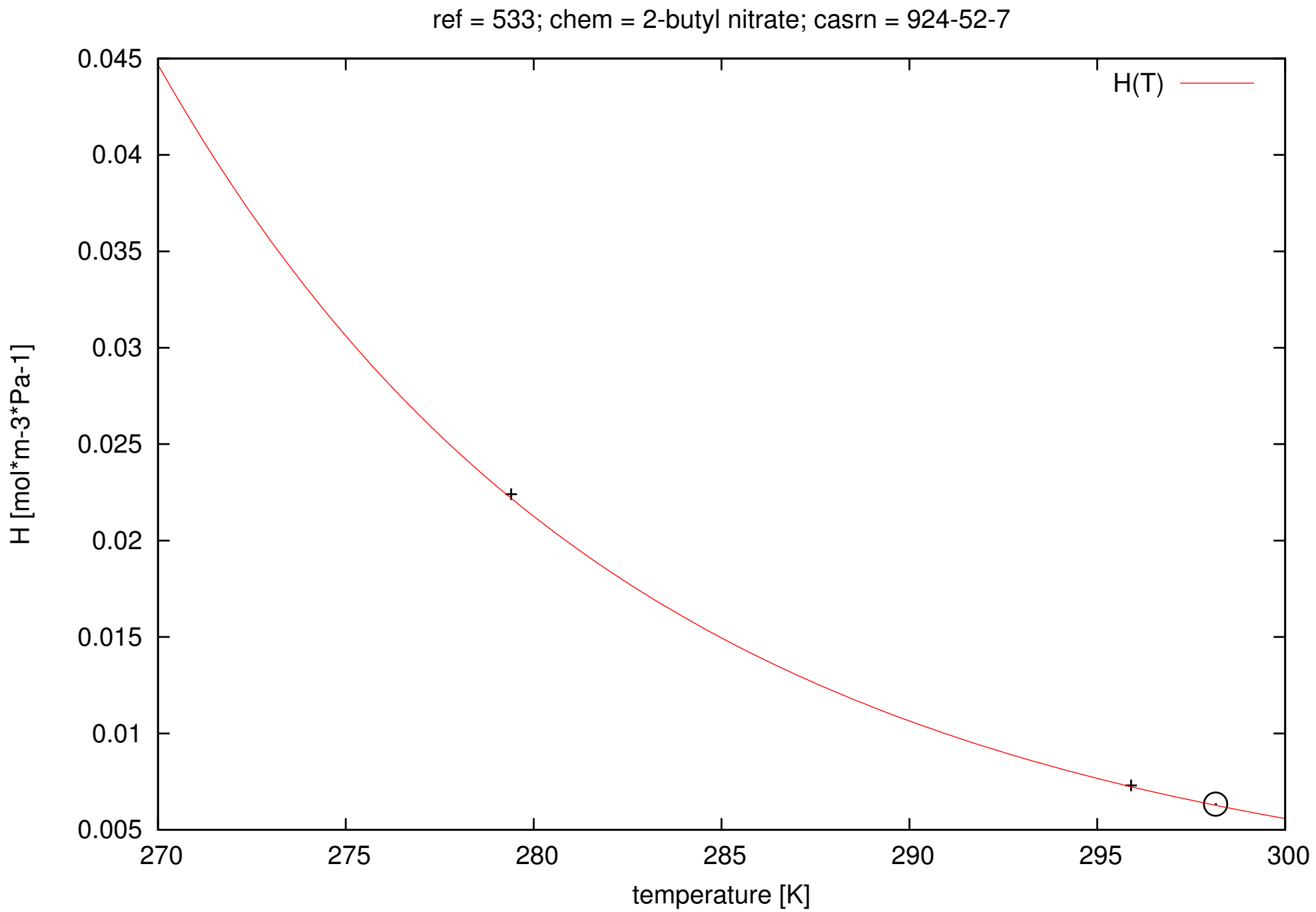

ref = 514; chem = dinitrogen pentoxide; casrn = 10102-03-1
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.6
0.5
0.4
0.3
0.2
0.1
0
230
240
250
260
270
280

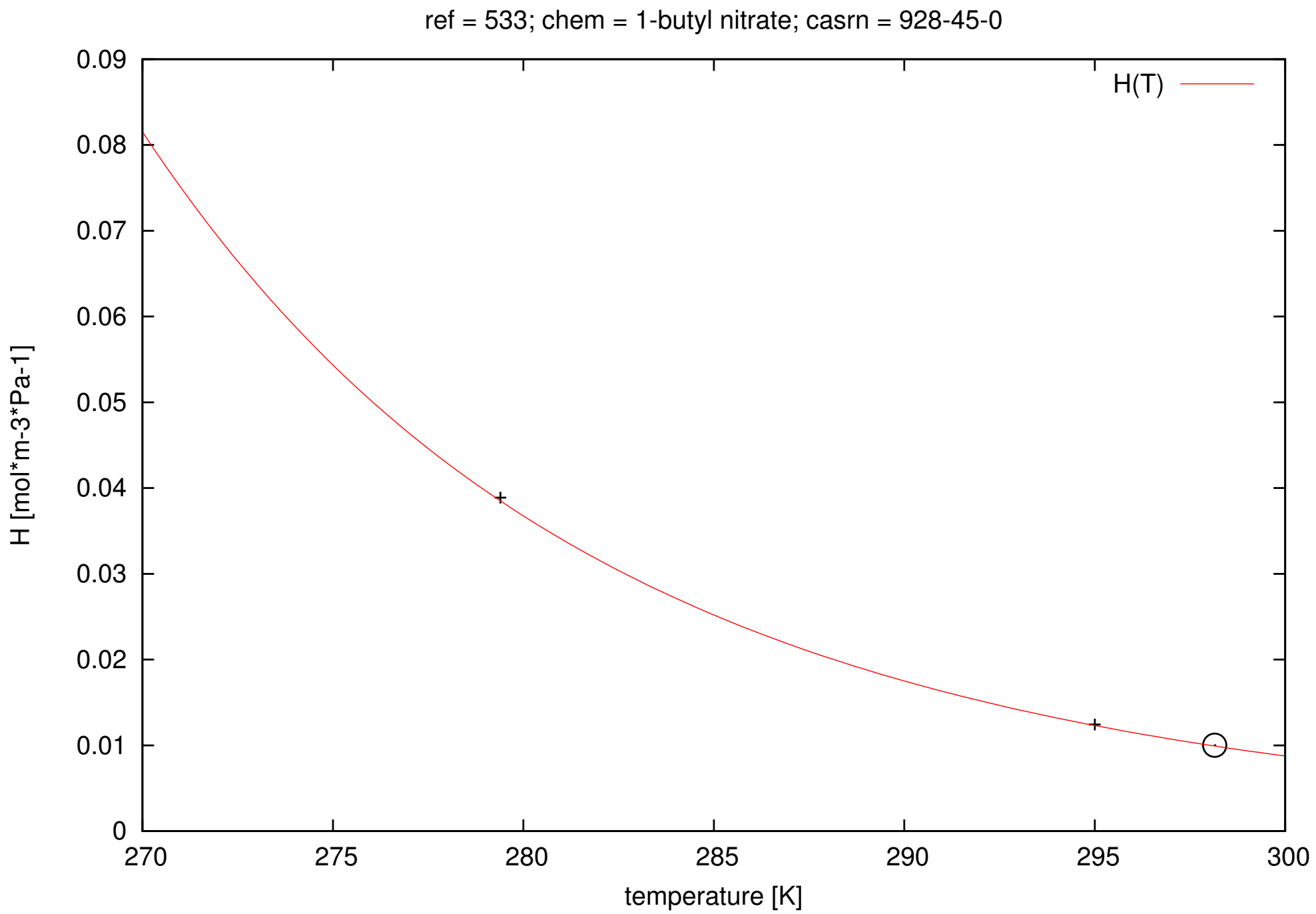

ref = 515; chem = hydroperoxy radical; casrn = 3170-83-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
240
250
260
270
280
290
300

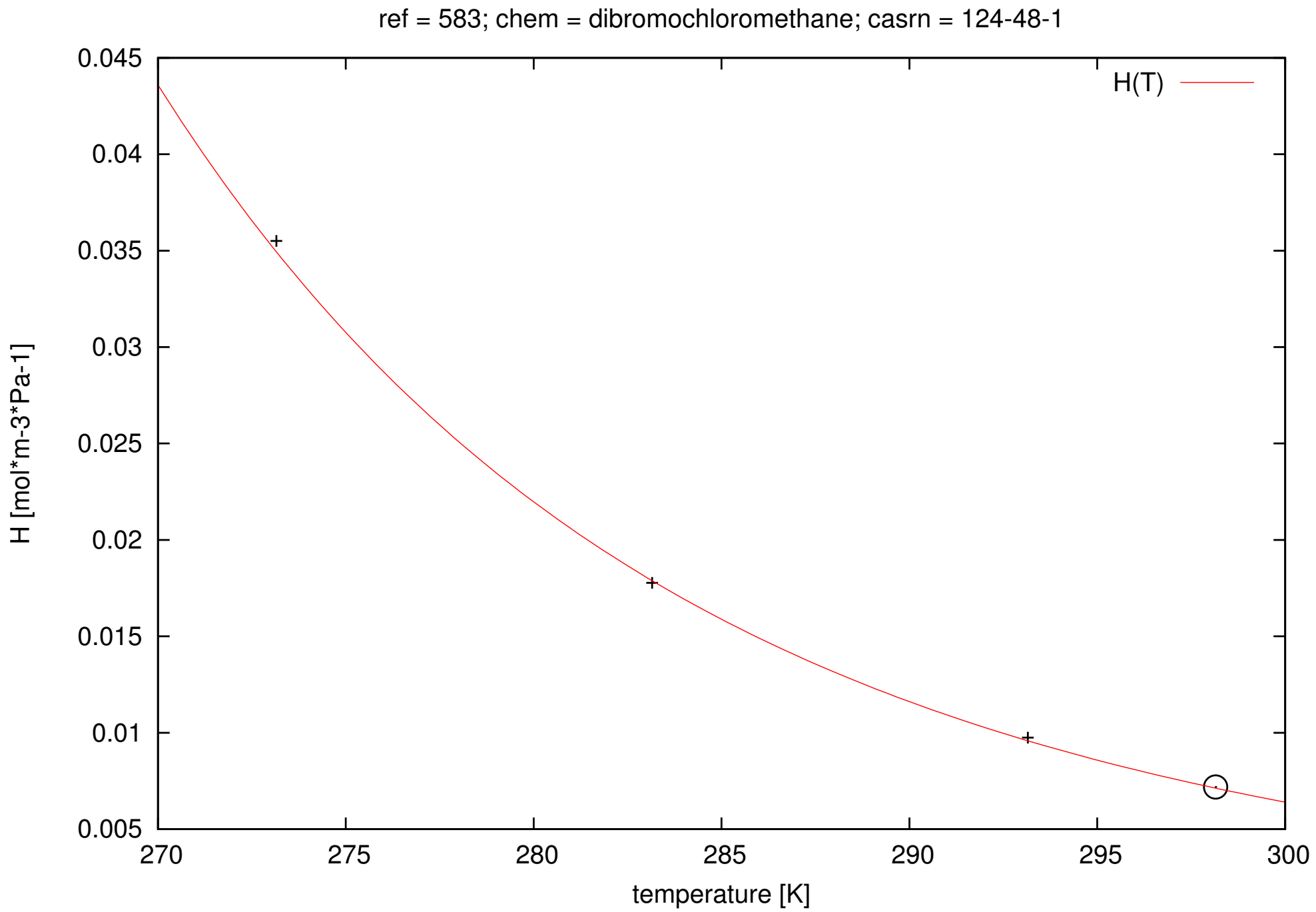

ref = 515; chem = hydroxyl radical; casrn = 3352-57-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0
1
2
3
4
5
6
7
8
9
10
240
250
260
270
280
290
300

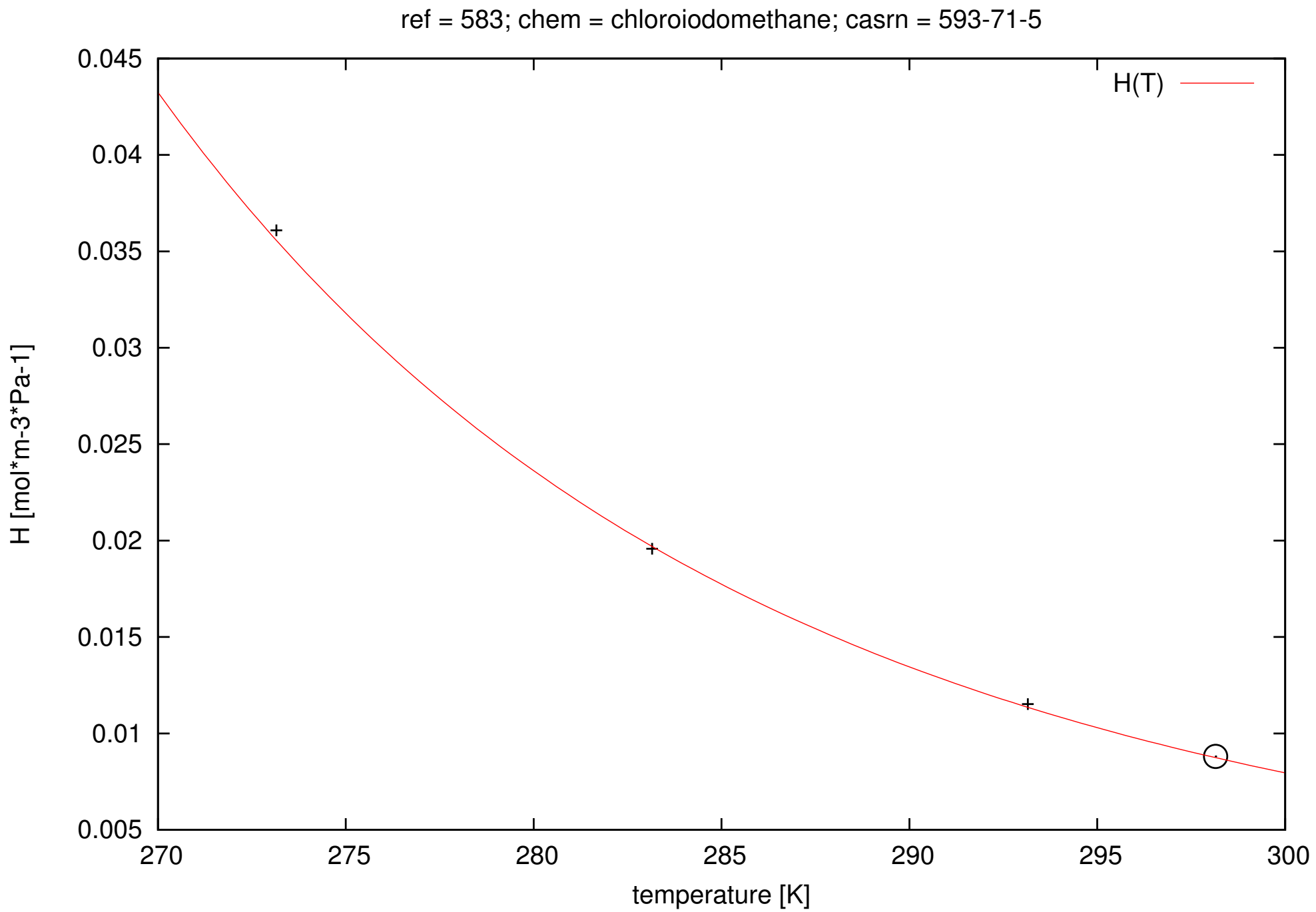

ref = 525; chem = oxygen; casrn = 7782-44-7
H(T)
H [mol*m-3*Pa-1]
temperature [K]
2.4e-05
2.2e-05
2e-05
1.8e-05
1.6e-05
1.4e-05
1.2e-05
1e-05
8e-06
270
275
280
285
290
295
300
305
310

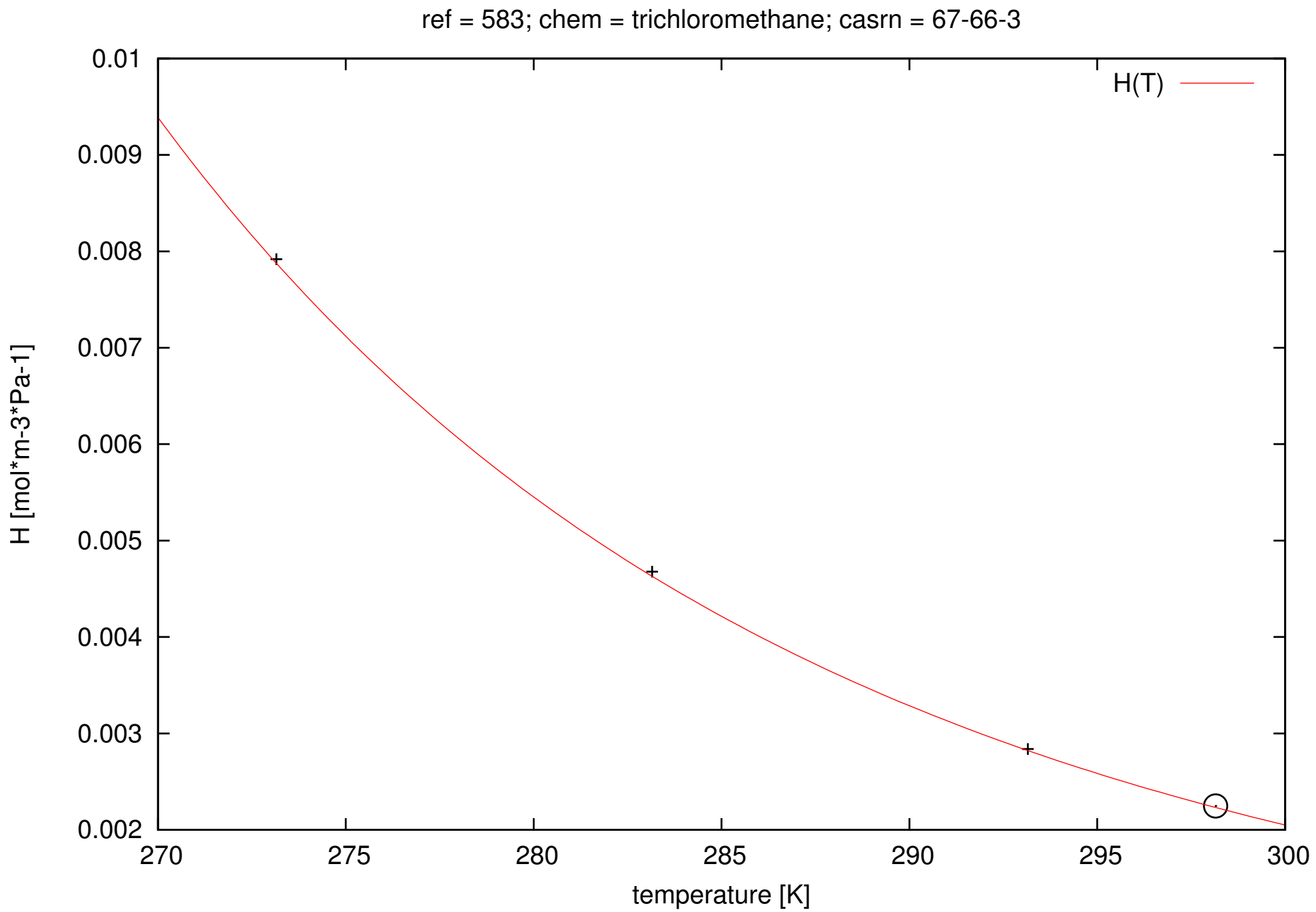

ref = 528; chem = ozone; casrn = 10028-15-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.00026
0.00024
0.00022
0.0002
0.00018
0.00016
0.00014
0.00012
270
275
280
285
290
295
300

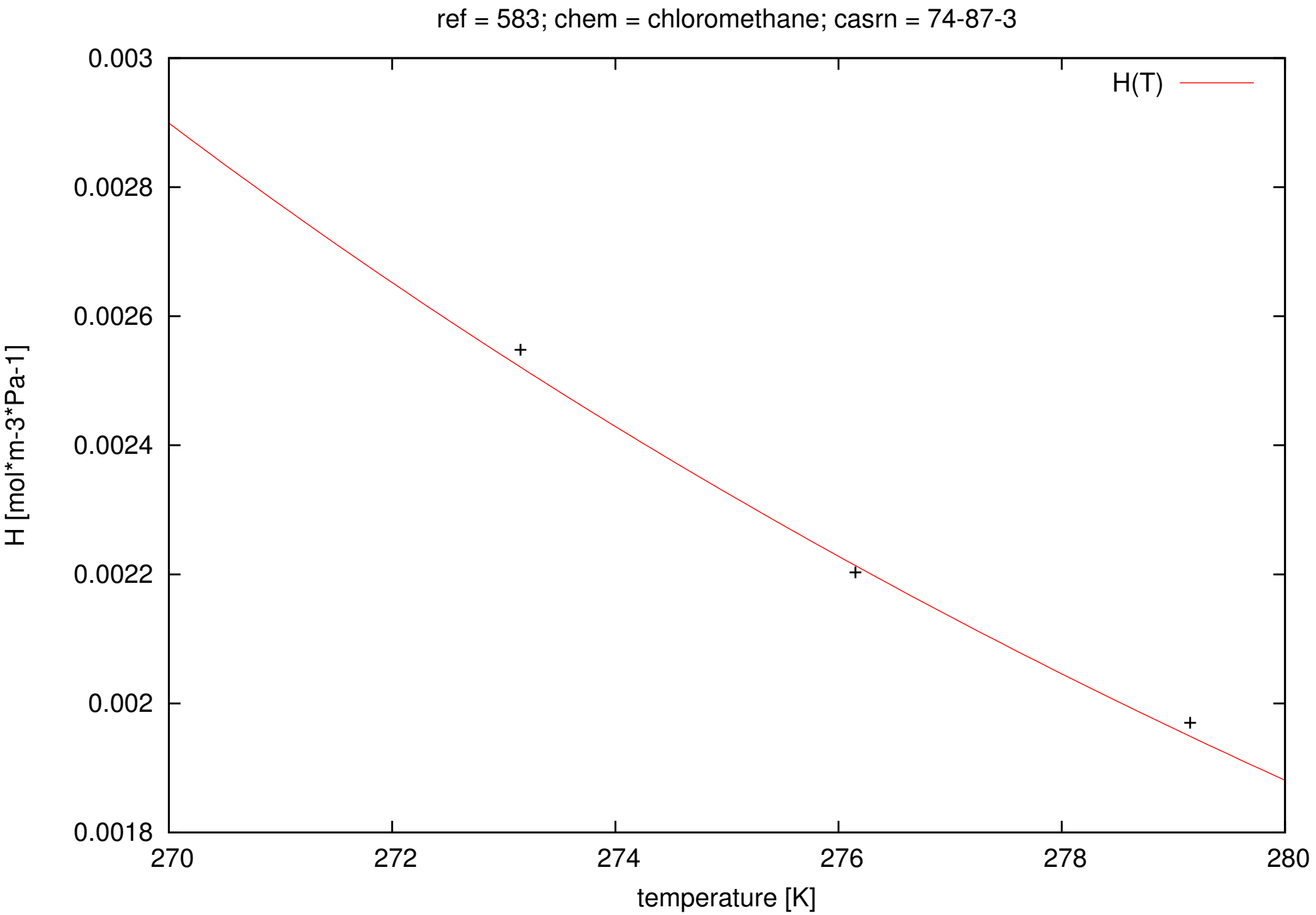

ref = 533; chem = 2-butyl nitrate; casrn = 924-52-7
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
270
275
280
285
290
295
300

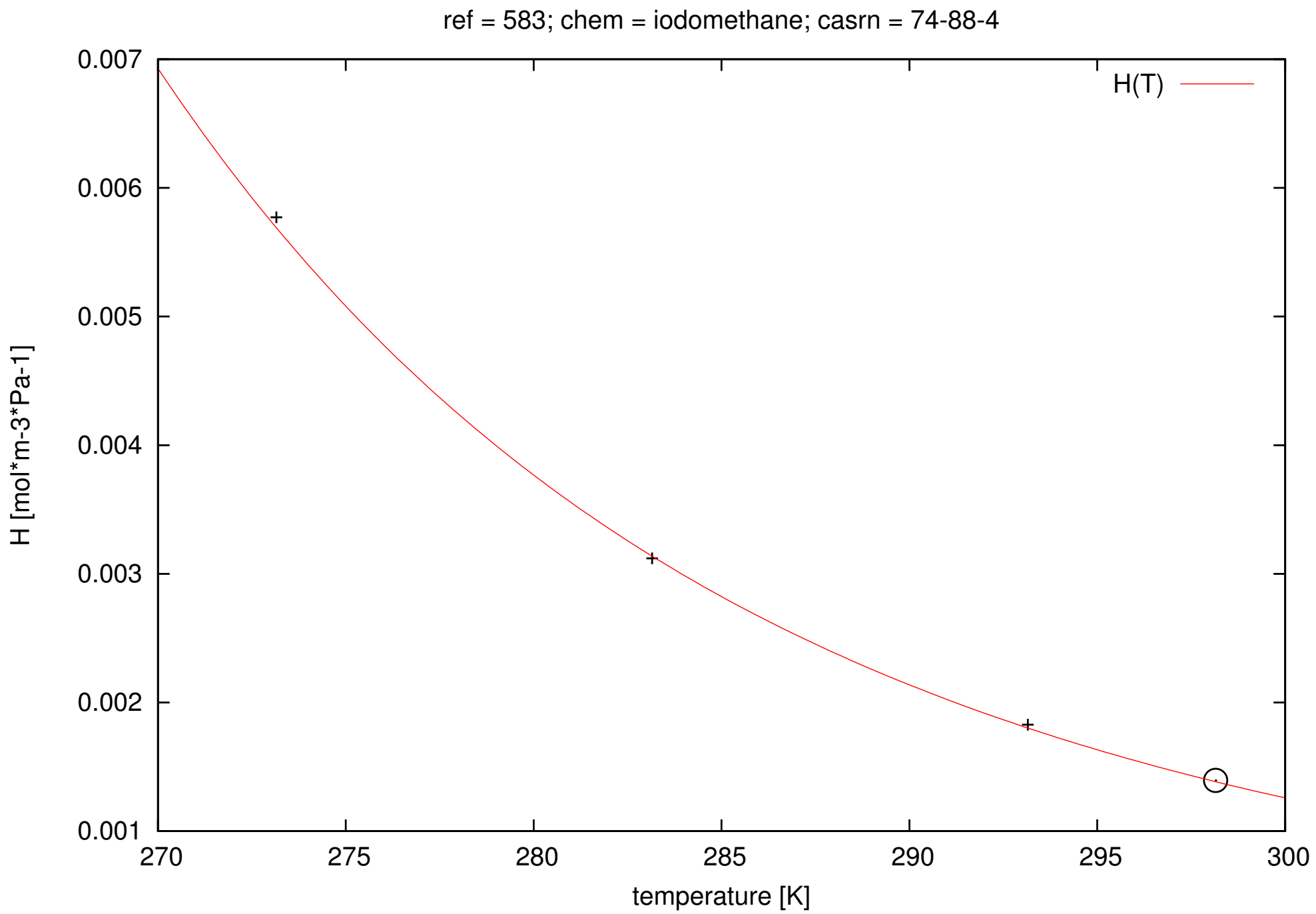

ref = 533; chem = 1-butyl nitrate; casrn = 928-45-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
270
275
280
285
290
295
300

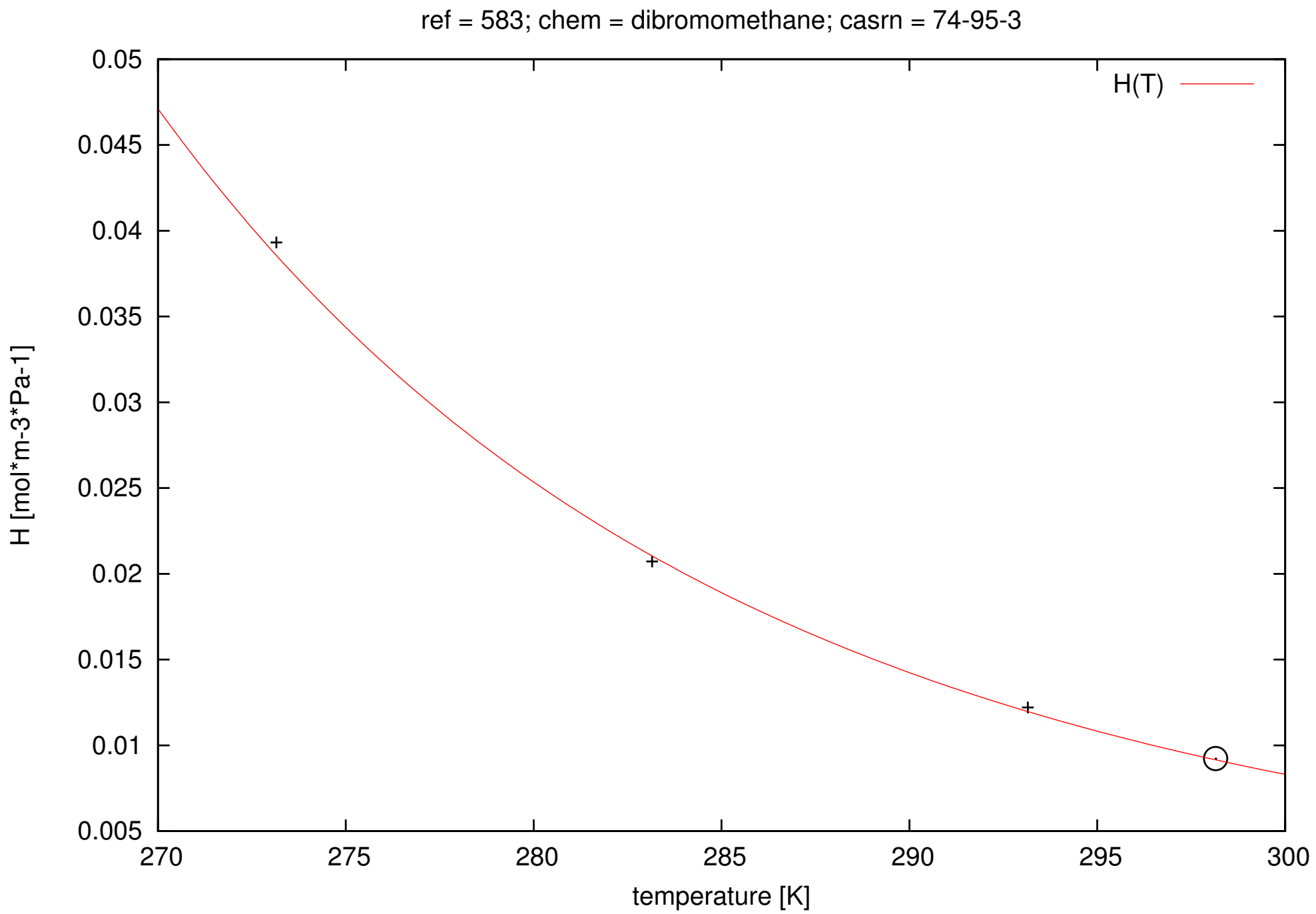

ref = 583; chem = dibromochloromethane; casrn = 124-48-1
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
270
275
280
285
290
295
300

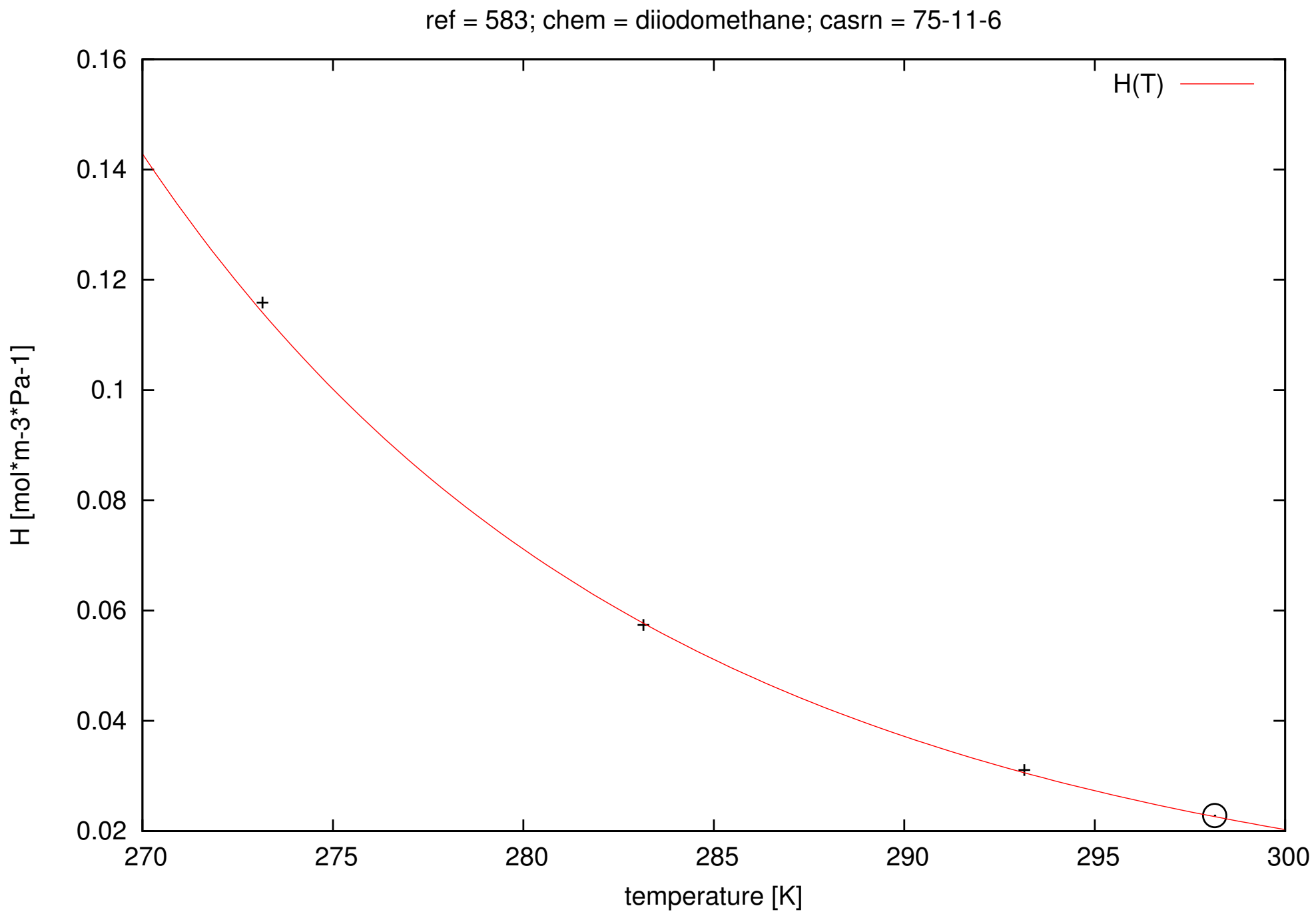

ref = 583; chem = chloroiodomethane; casrn = 593-71-5
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
270
275
280
285
290
295
300

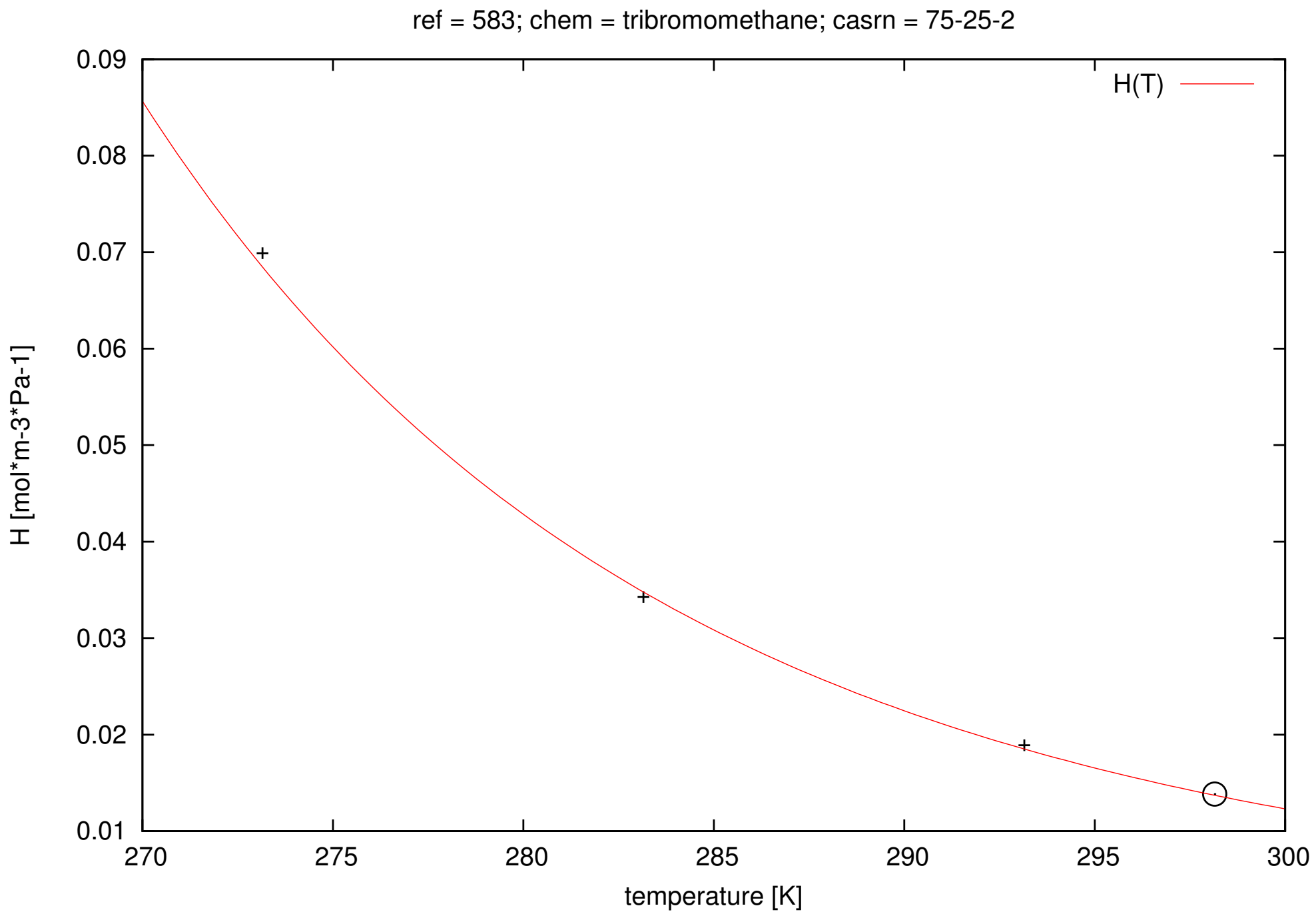

ref = 583; chem = trichloromethane; casrn = 67-66-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
270
275
280
285
290
295
300

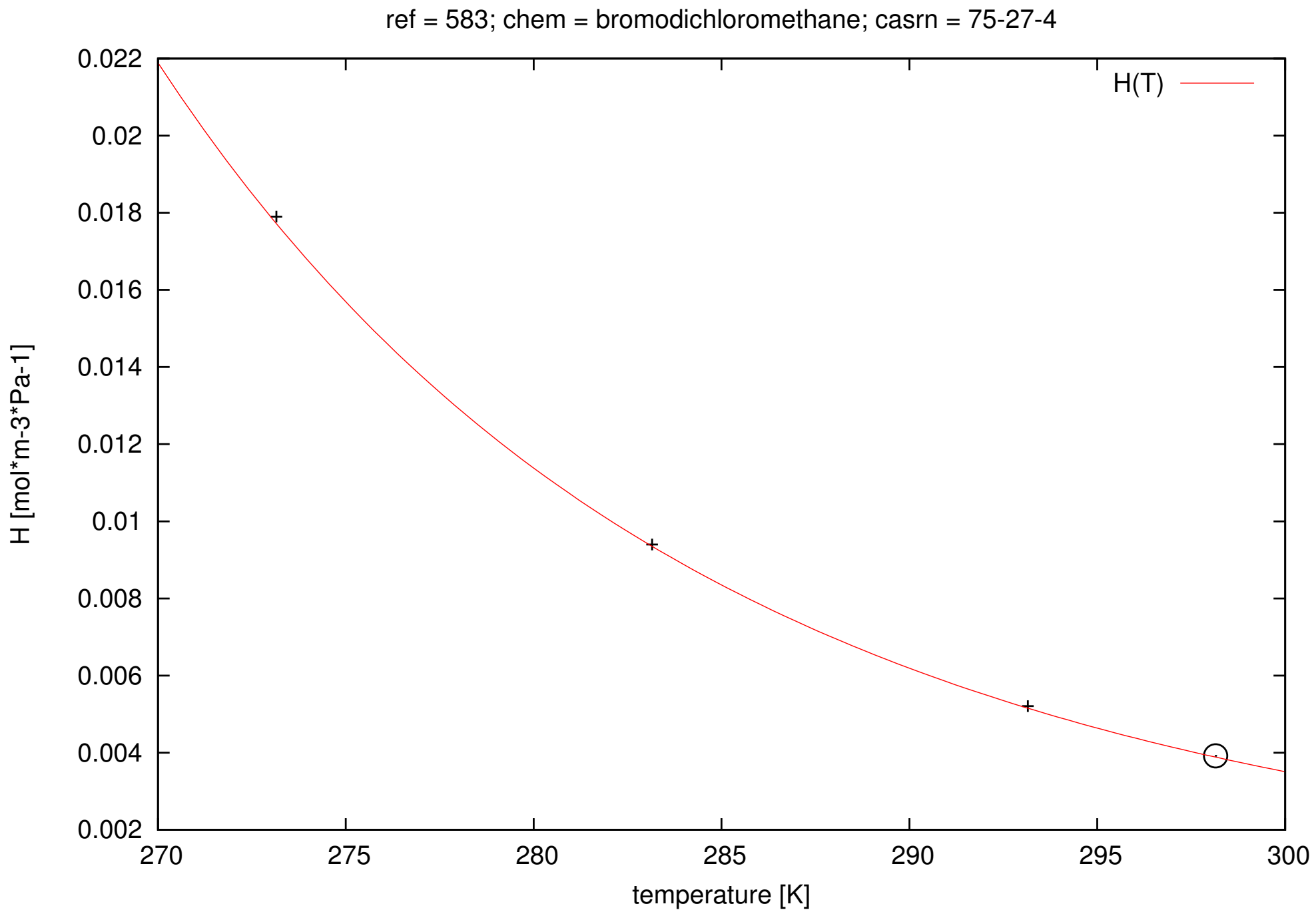

ref = 583; chem = chloromethane; casrn = 74-87-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
270
272
274
276
278
280

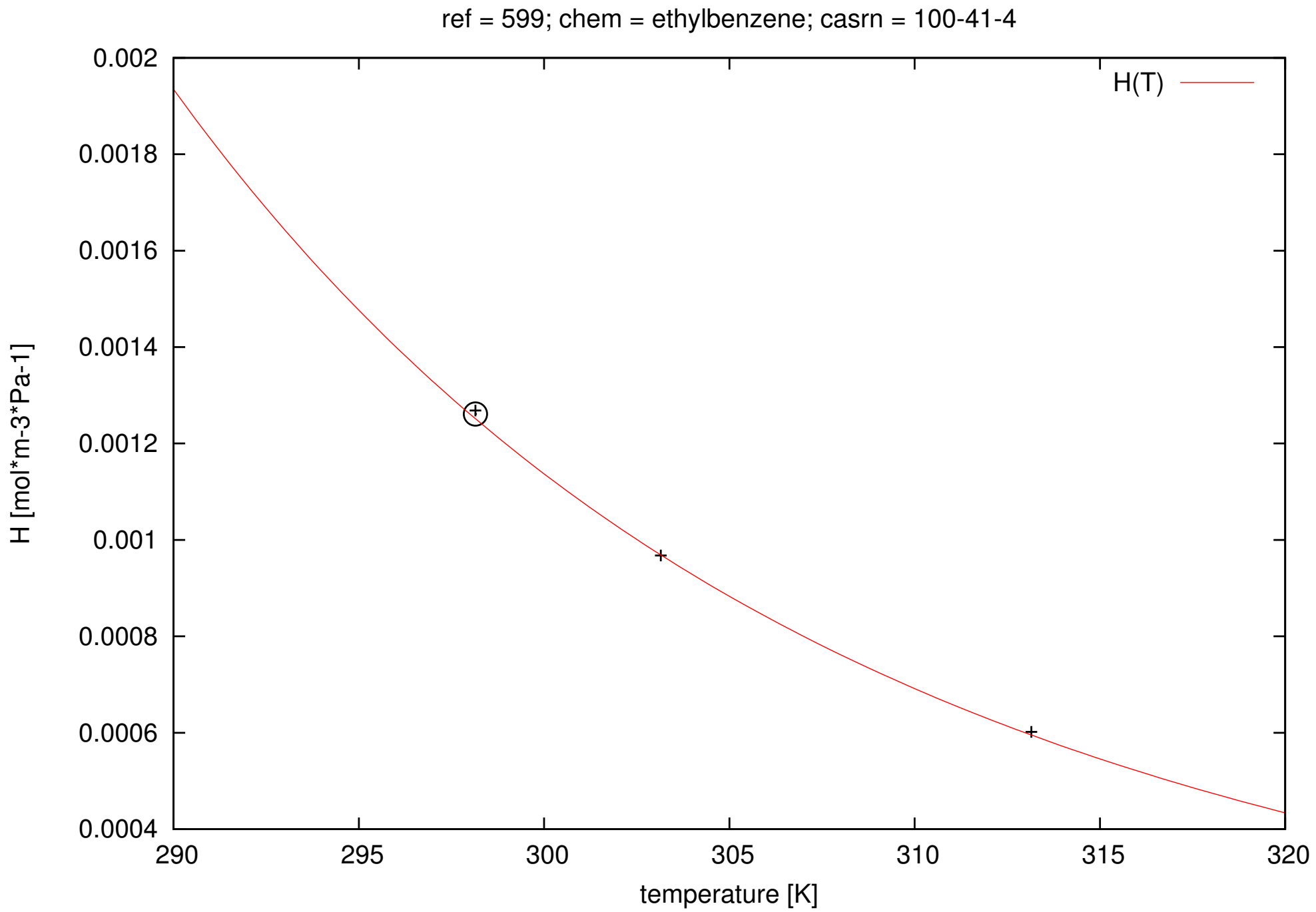

ref = 583; chem = iodomethane; casrn = 74-88-4
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.007
0.006
0.005
0.004
0.003
0.002
0.001
270
275
280
285
290
295
300

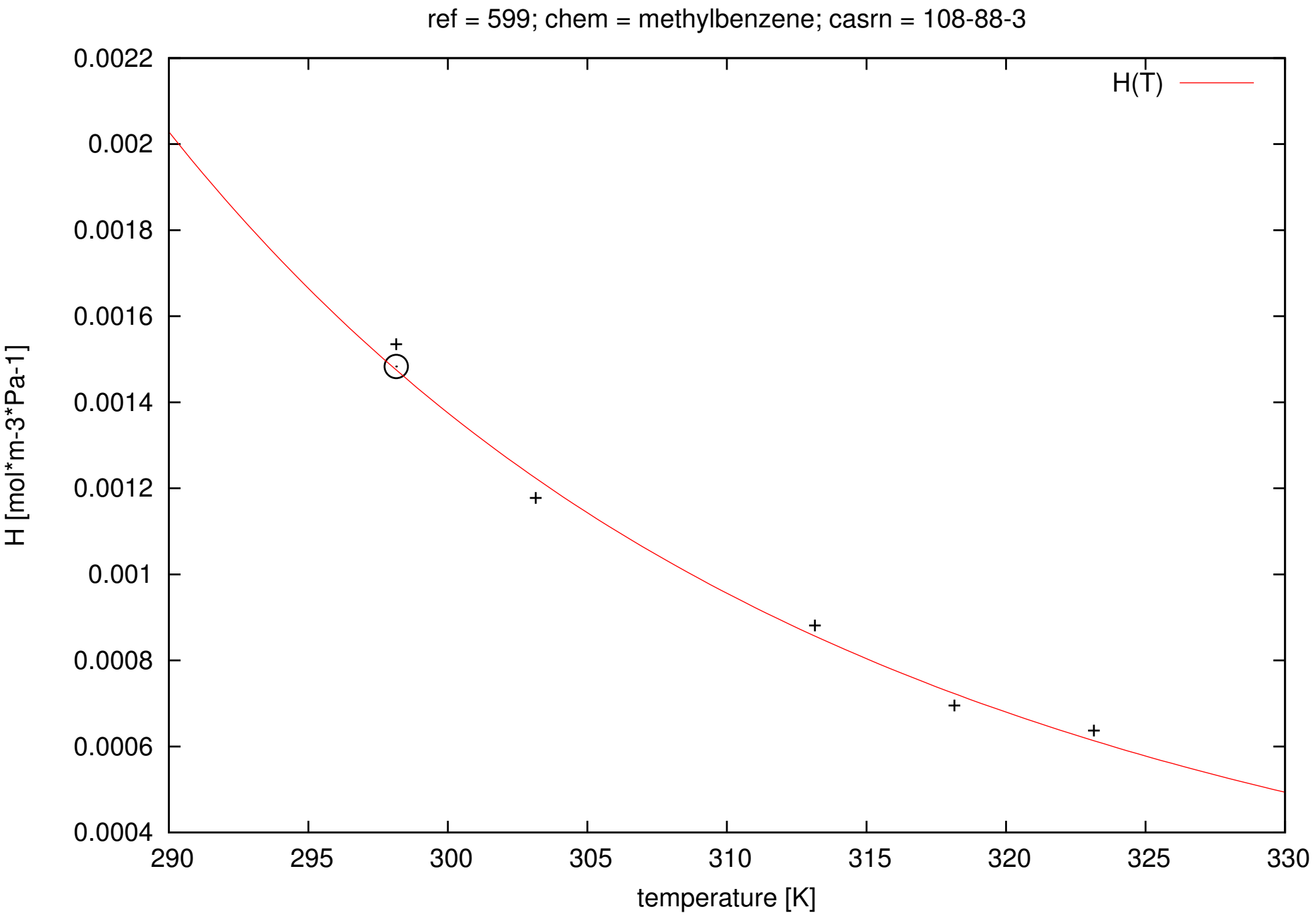

ref = 583; chem = dibromomethane; casrn = 74-95-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
270
275
280
285
290
295
300

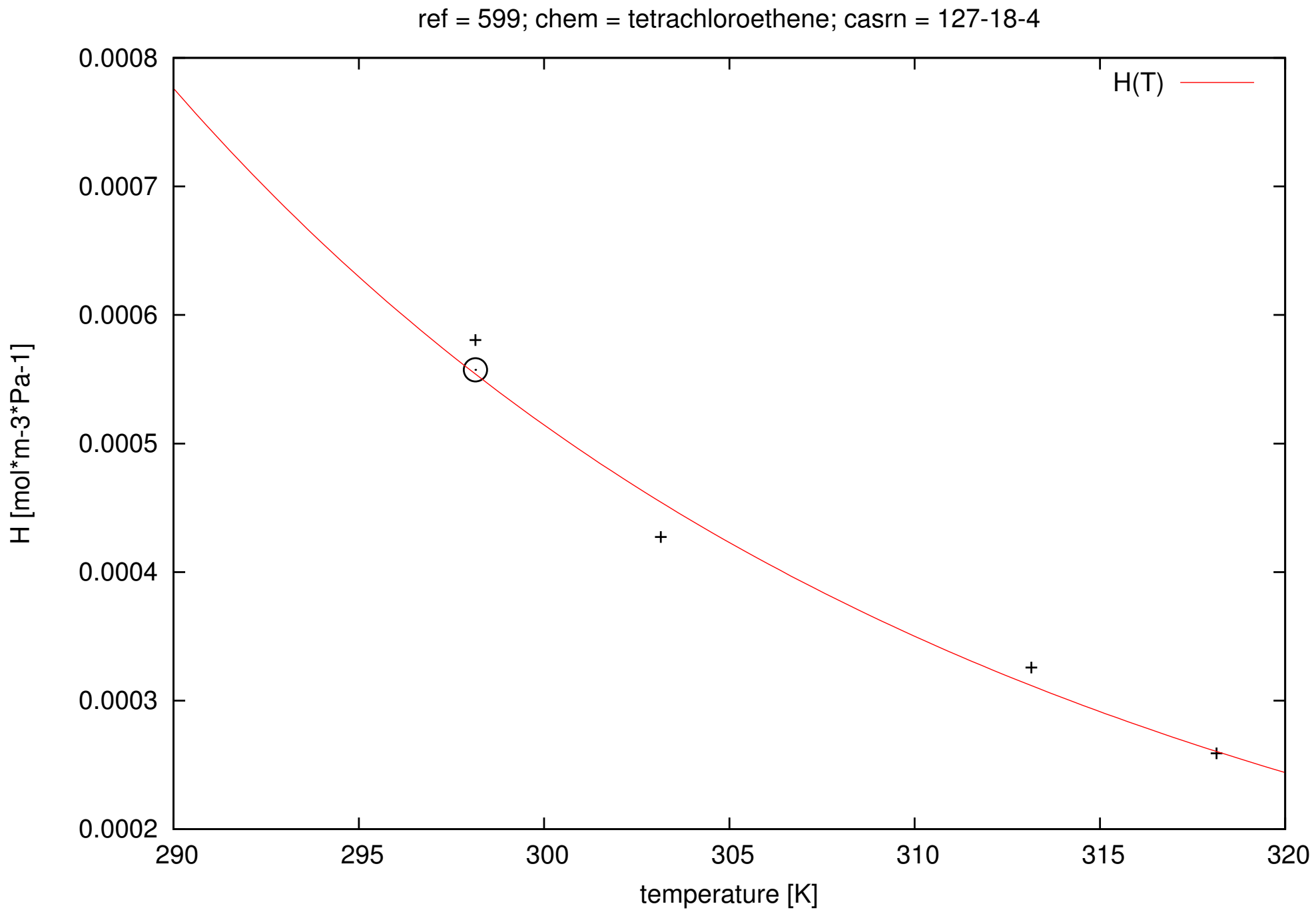

ref = 583; chem = diiodomethane; casrn = 75-11-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
270
275
280
285
290
295
300

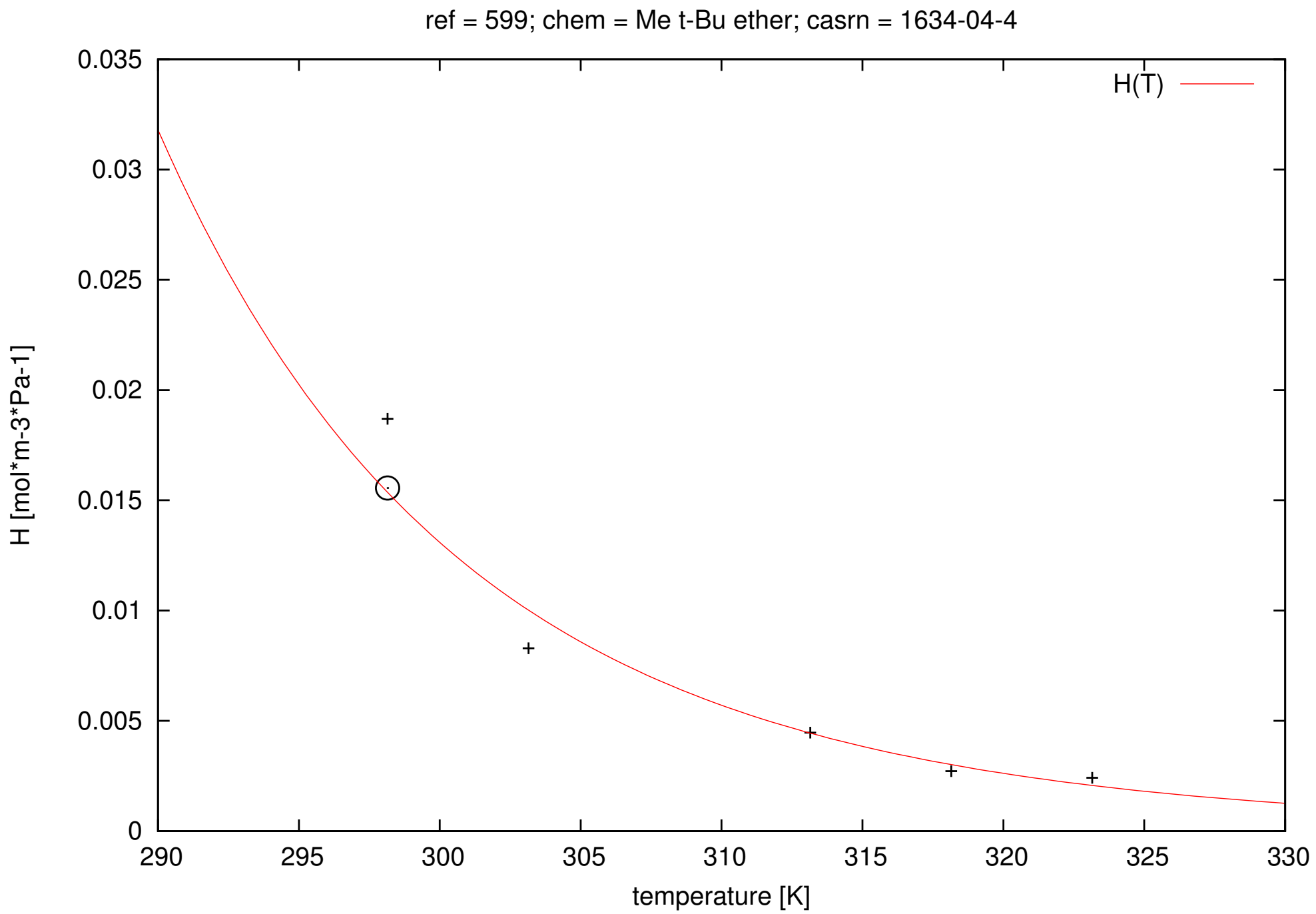

ref = 583; chem = tribromomethane; casrn = 75-25-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
270
275
280
285
290
295
300

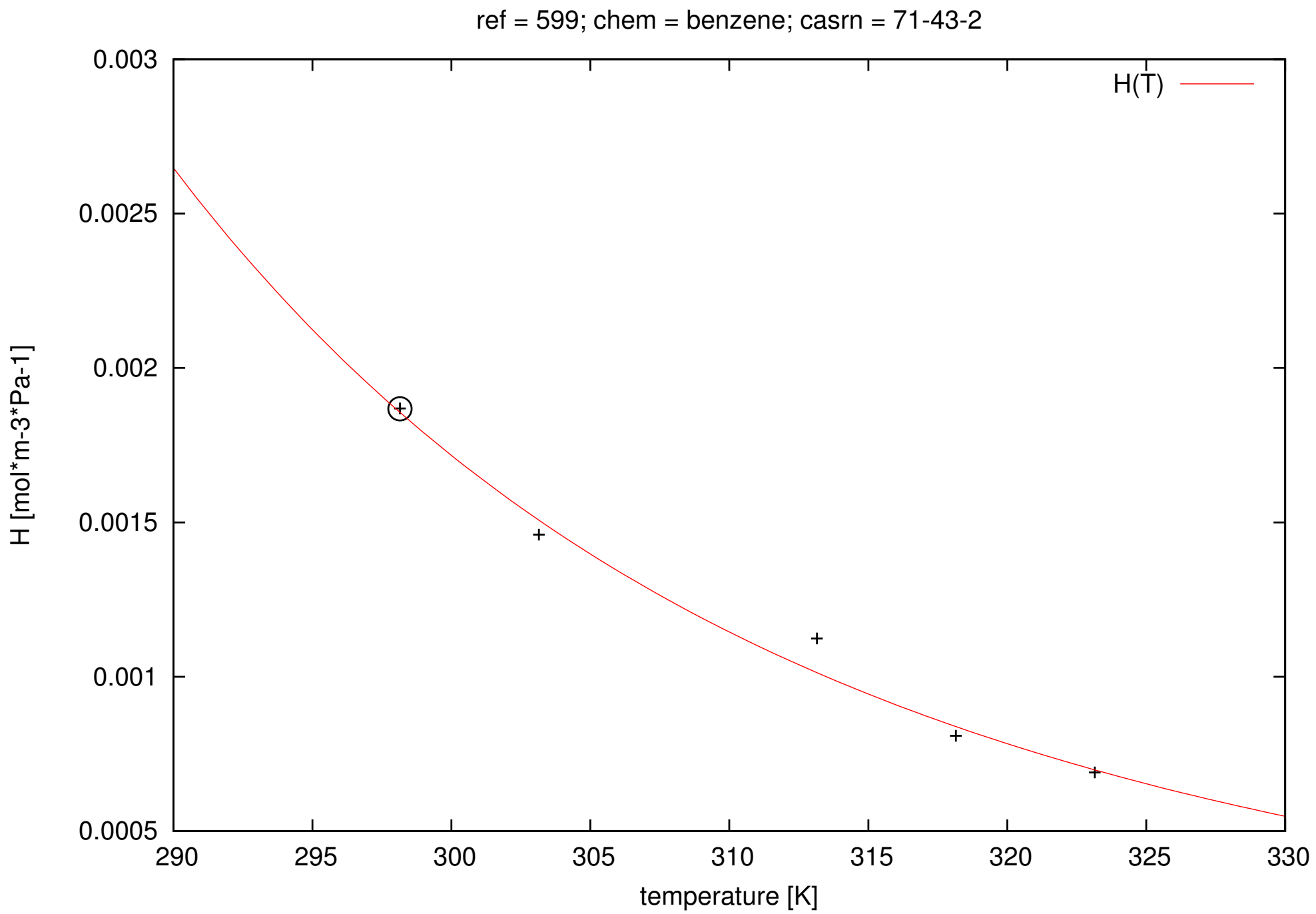

ref = 583; chem = bromodichloromethane; casrn = 75-27-4
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
270
275
280
285
290
295
300

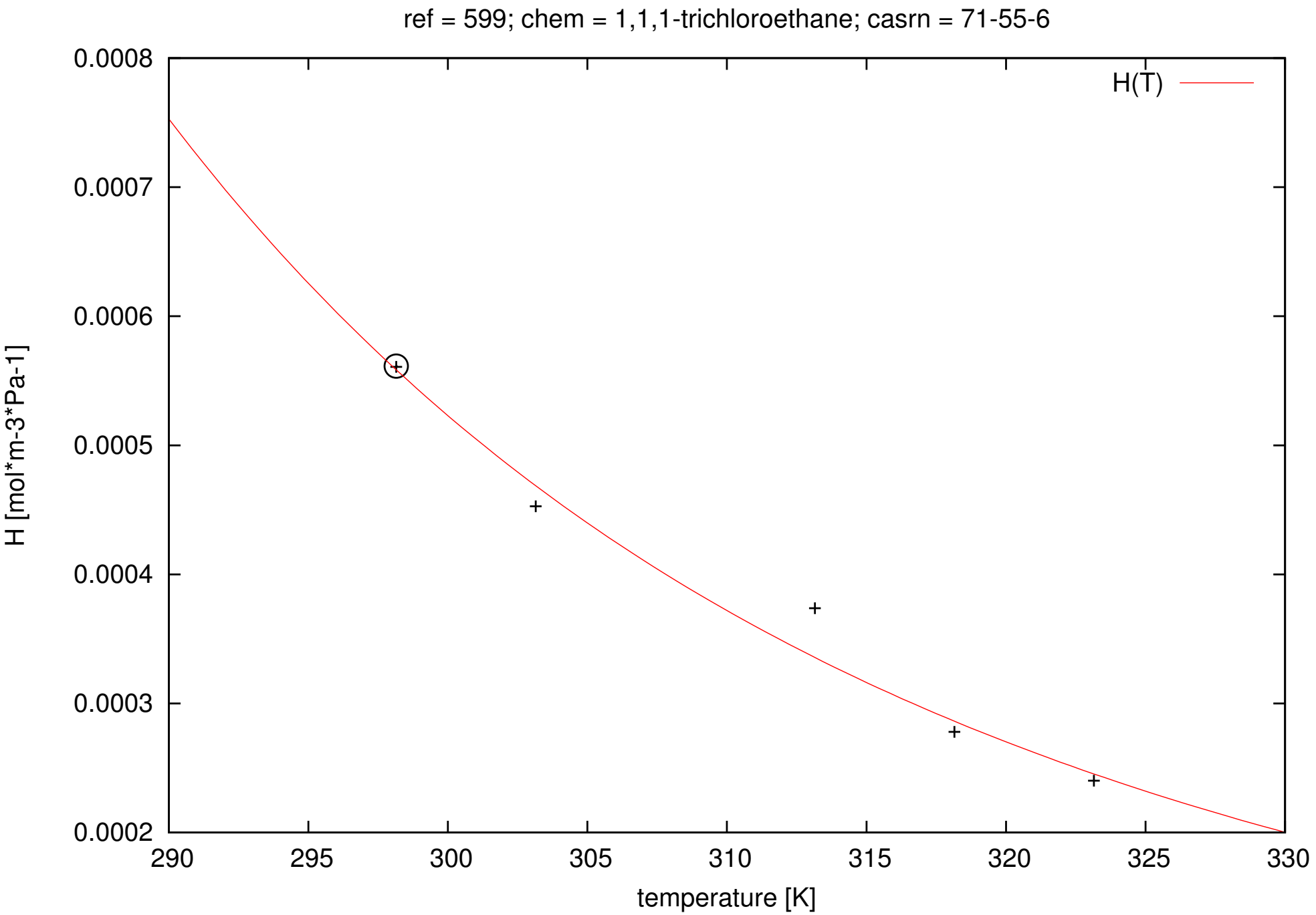

ref = 599; chem = ethylbenzene; casrn = 100-41-4
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
290
295
300
305
310
315
320

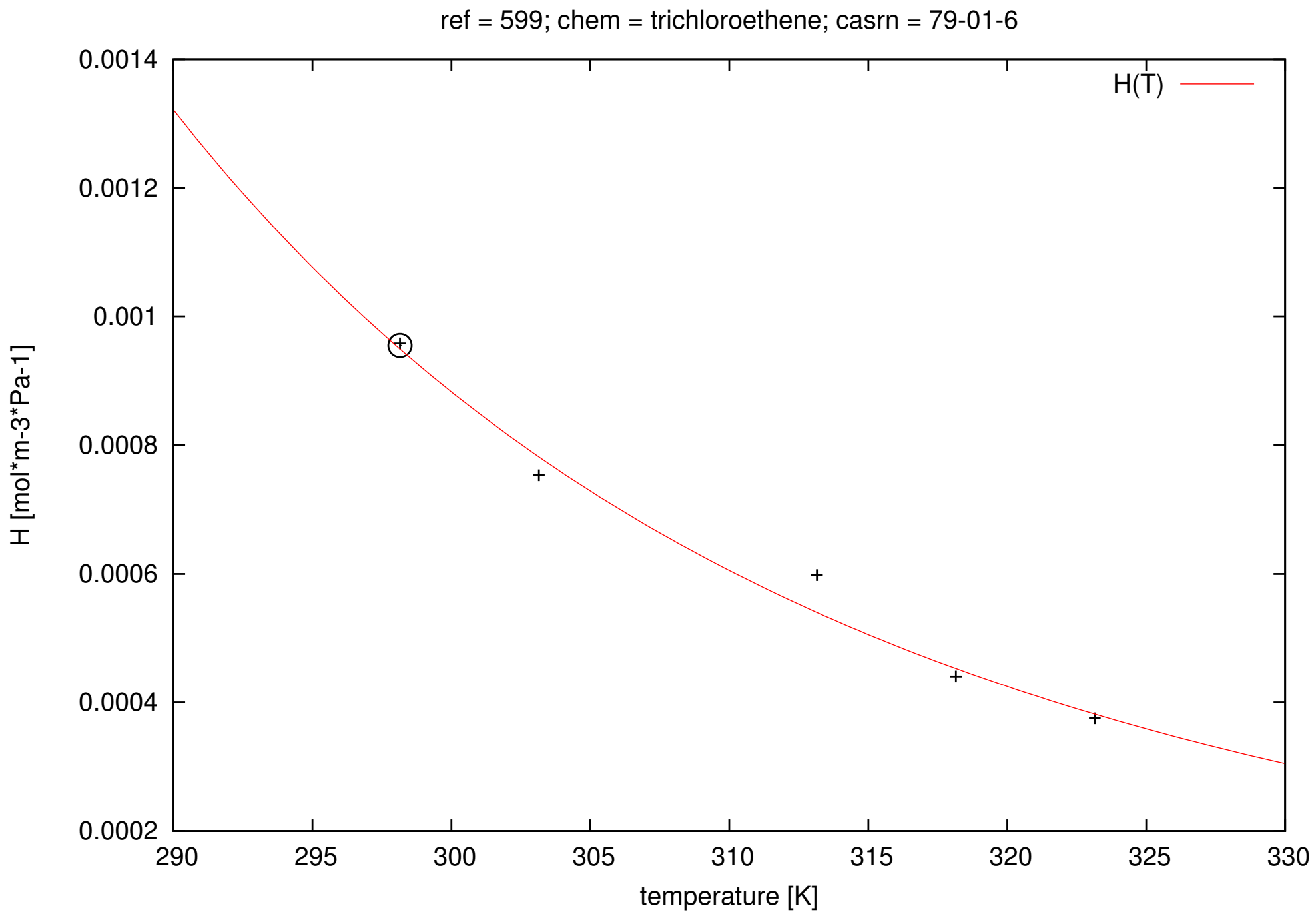

ref = 599; chem = methylbenzene; casrn = 108-88-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
290
295
300
305
310
315
320
325
330

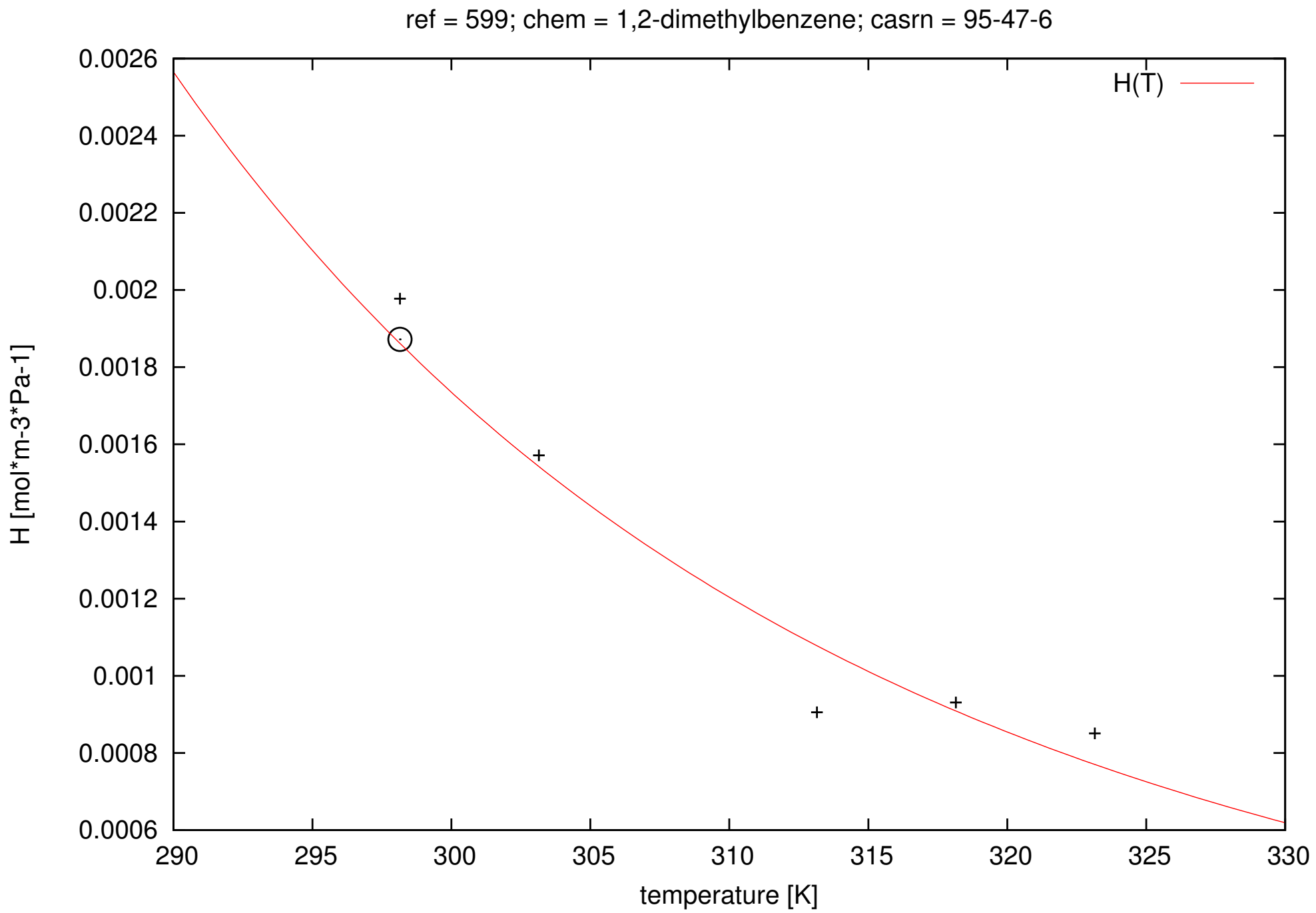

ref = 599; chem = tetrachloroethene; casrn = 127-18-4
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
290
295
300
305
310
315
320

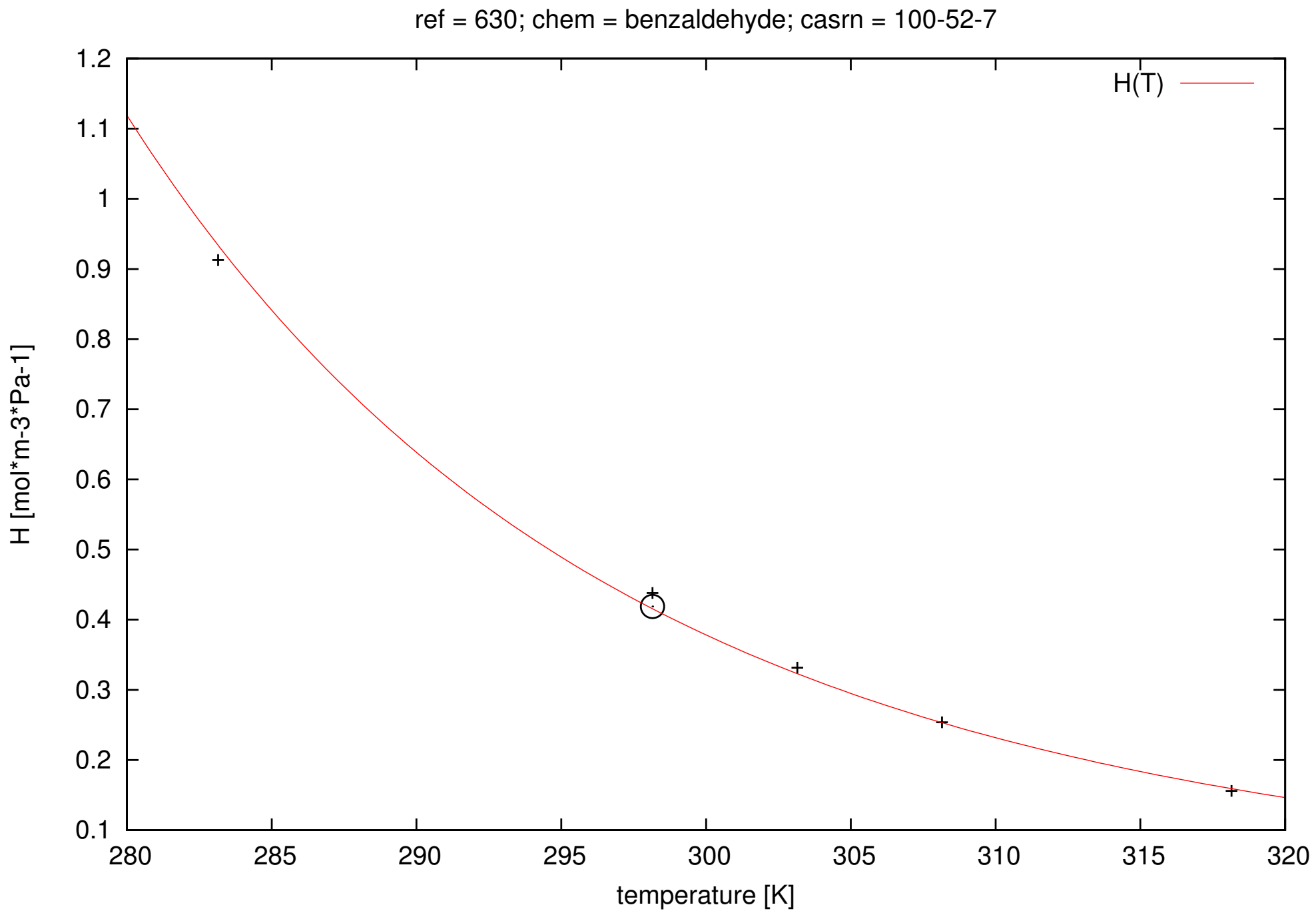

ref = 599; chem = Me t-Bu ether; casrn = 1634-04-4
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
290
295
300
305
310
315
320
325
330

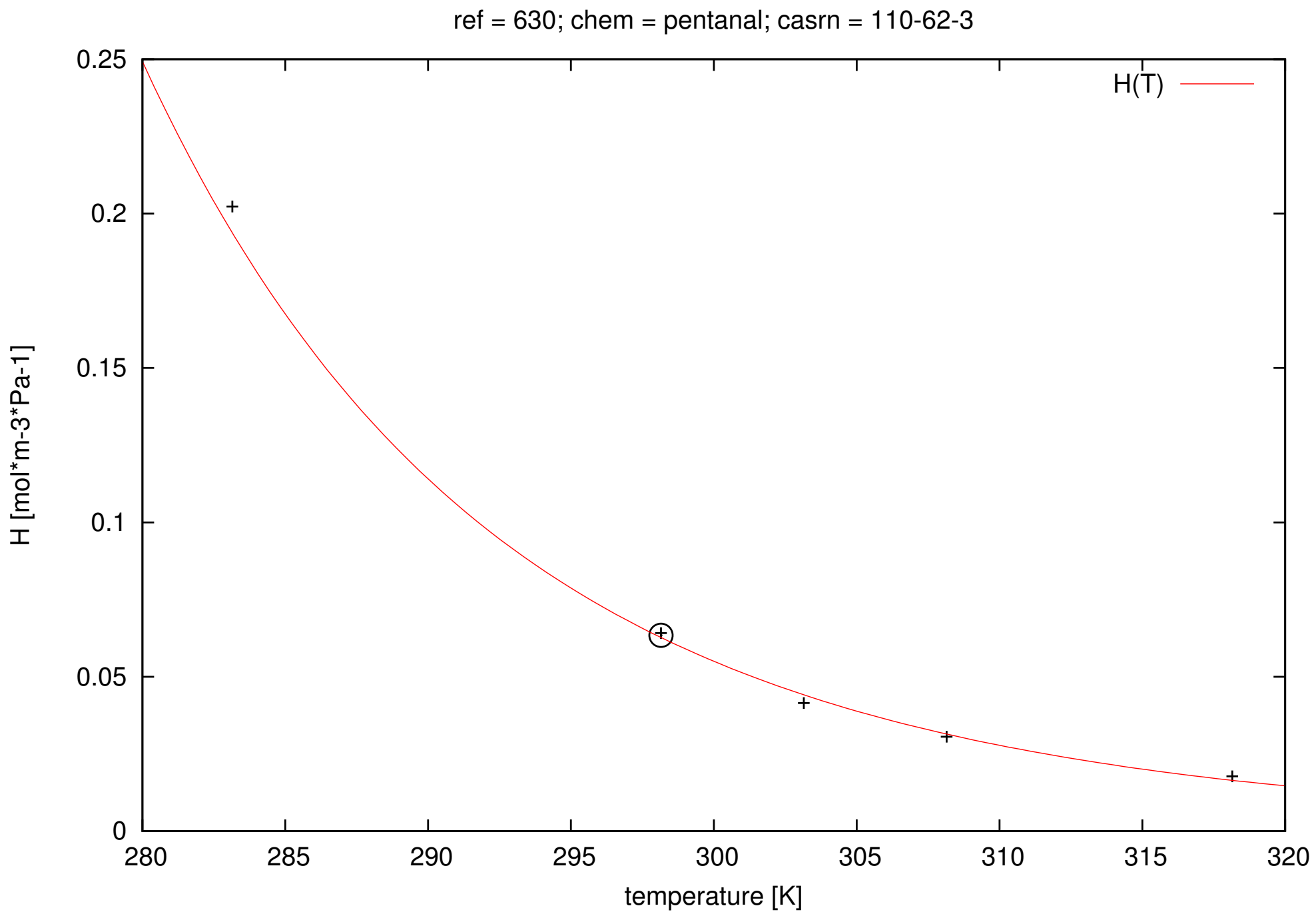

ref = 599; chem = benzene; casrn = 71-43-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.003
0.0025
0.002
0.0015
0.001
0.0005
290
295
300
305
310
315
320
325
330

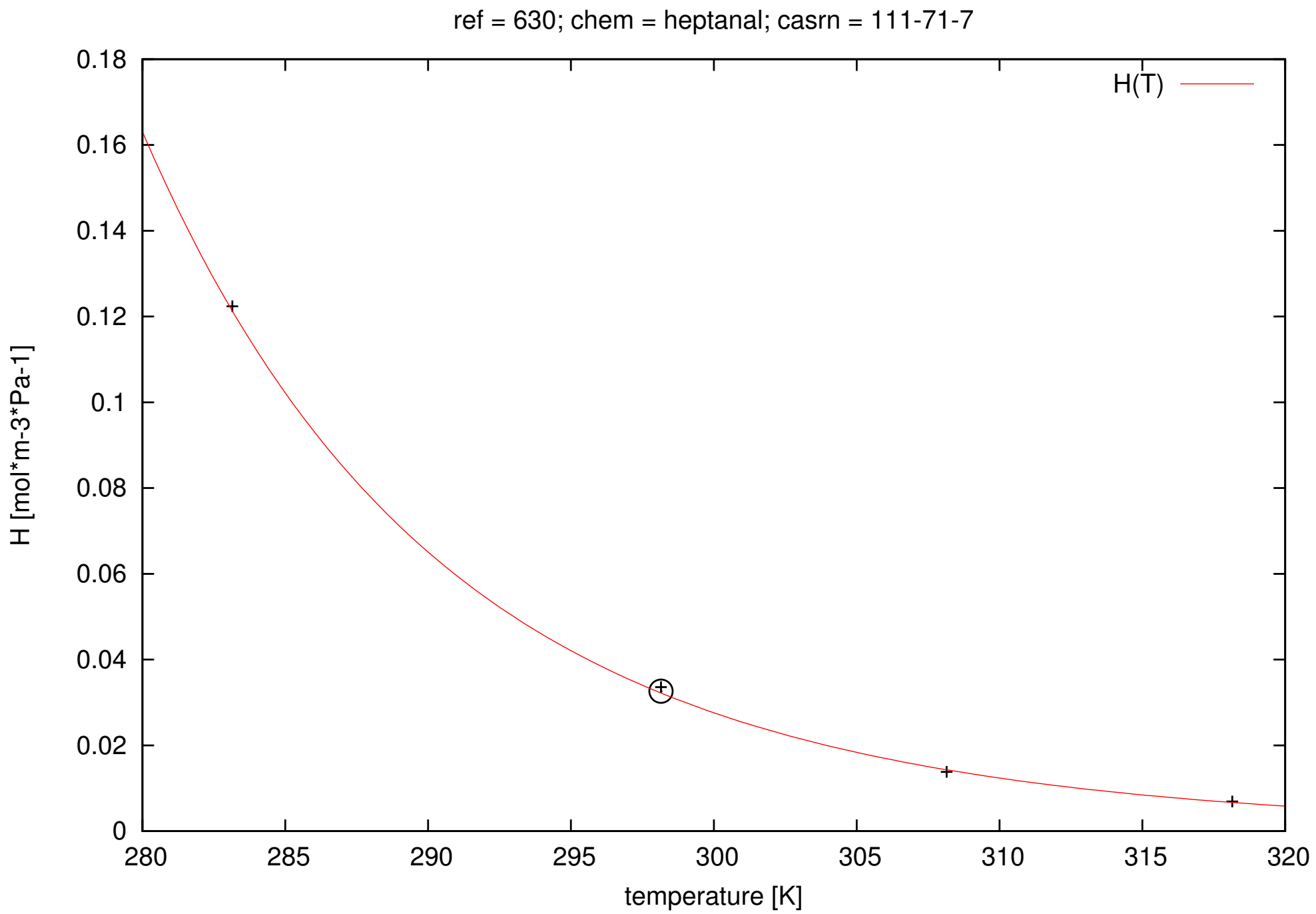

ref = 599; chem = 1,1,1-trichloroethane; casrn = 71-55-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
290
295
300
305
310
315
320
325
330

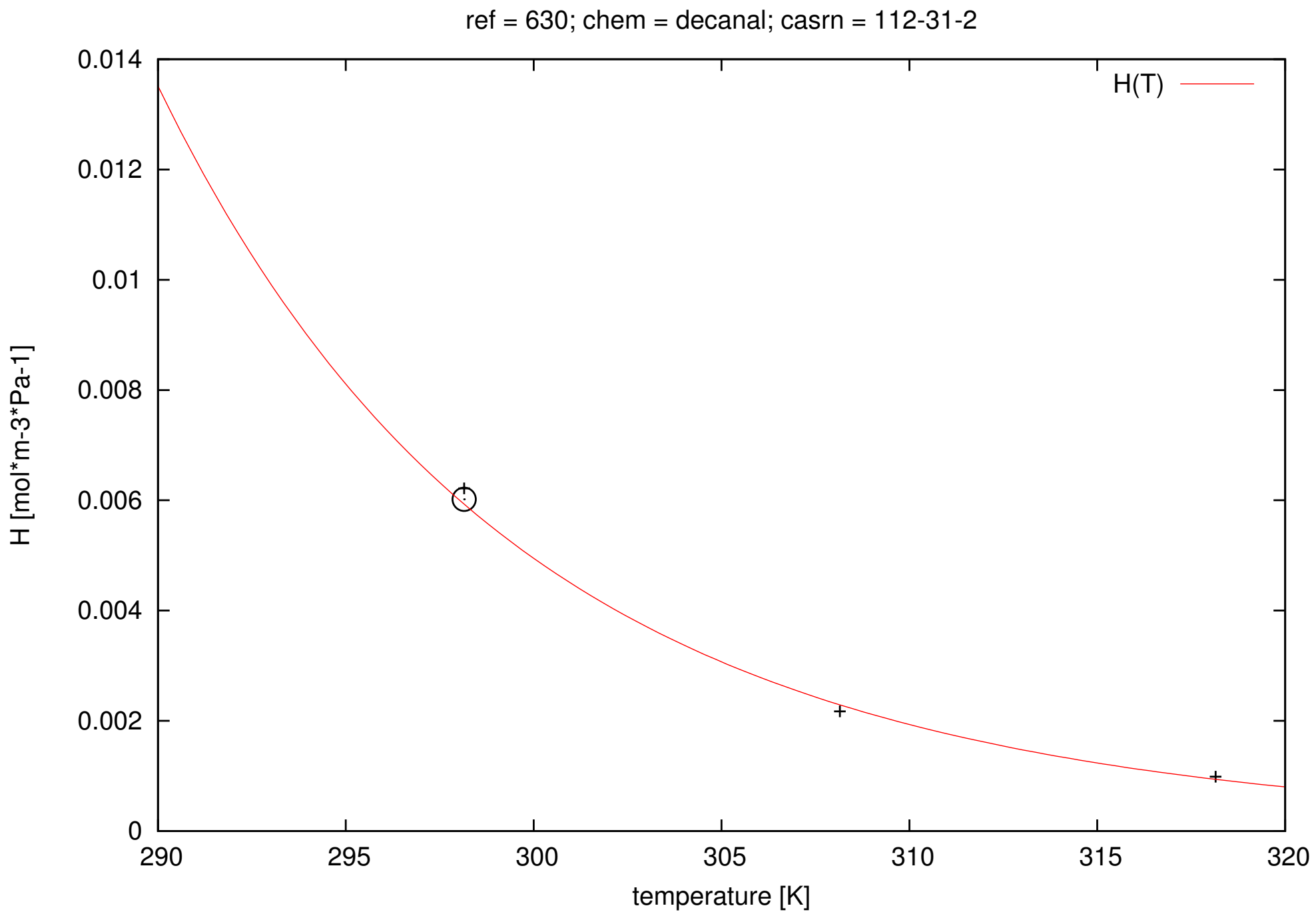

ref = 599; chem = trichloroethene; casrn = 79-01-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
290
295
300
305
310
315
320
325
330

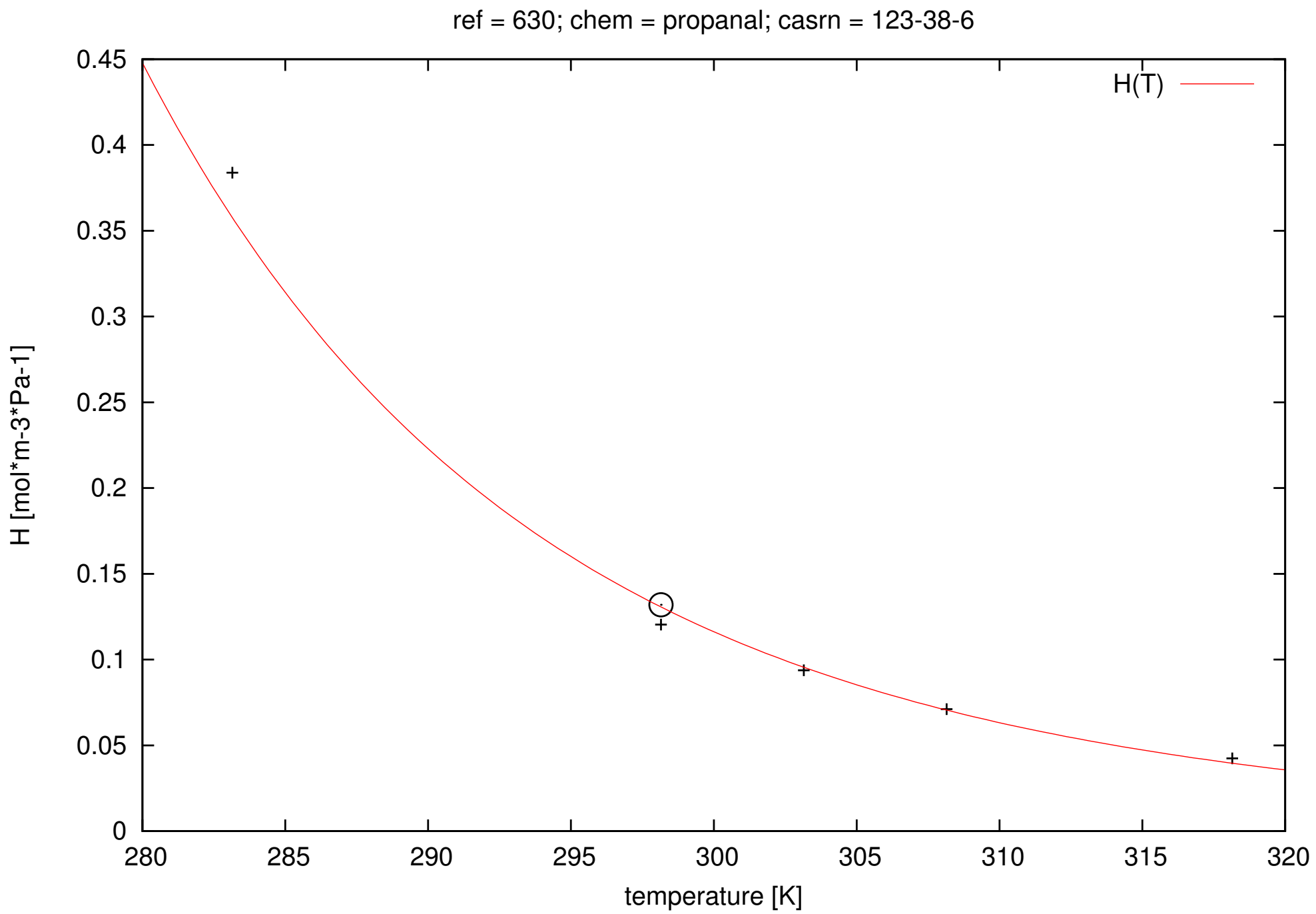

ref = 599; chem = 1,2-dimethylbenzene; casrn = 95-47-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
290
295
300
305
310
315
320
325
330

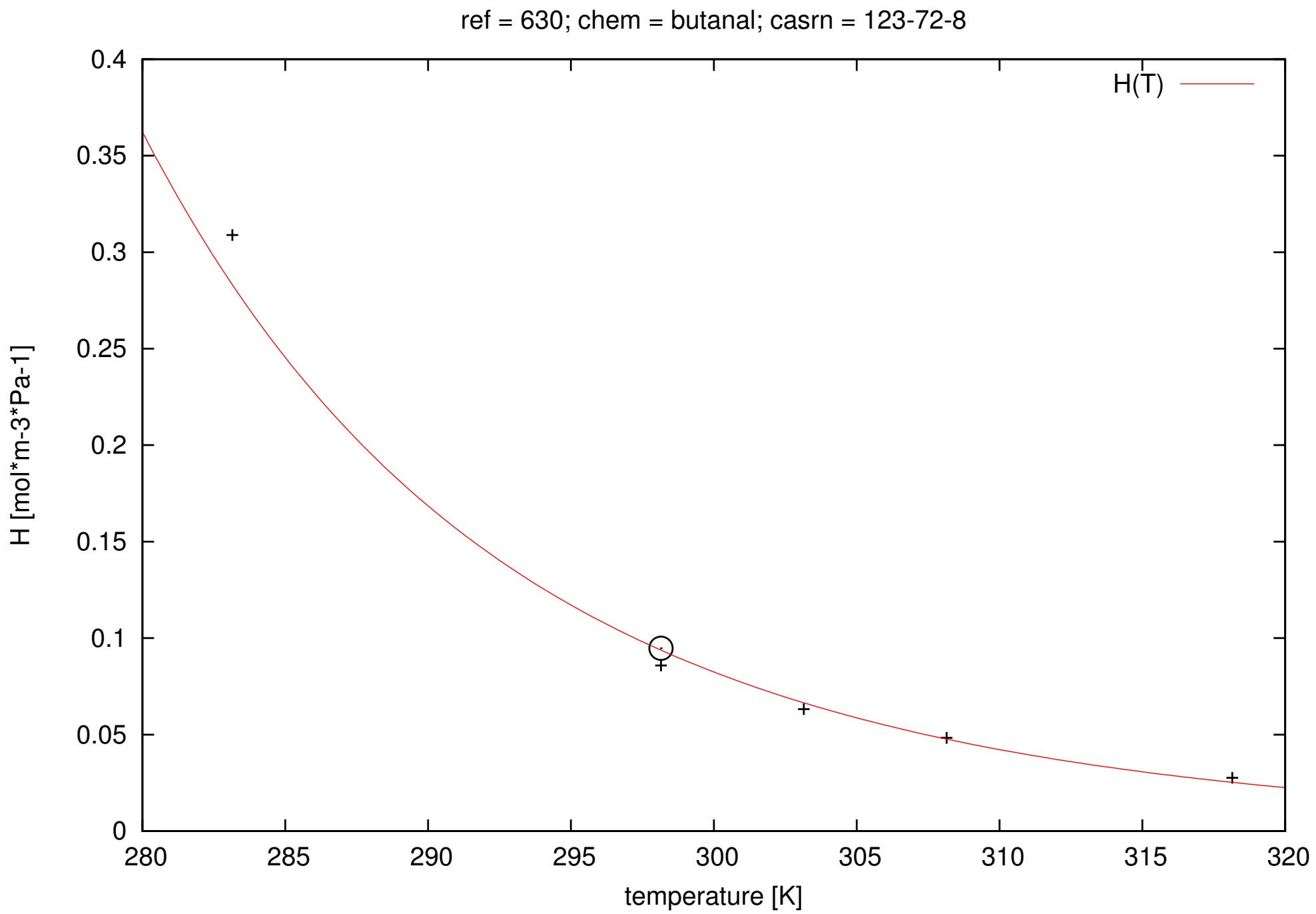

ref = 630; chem = benzaldehyde; casrn = 100-52-7
H(T)
H [mol*m-3*Pa-1]
temperature [K]
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
280
285
290
295
300
305
310
315
320

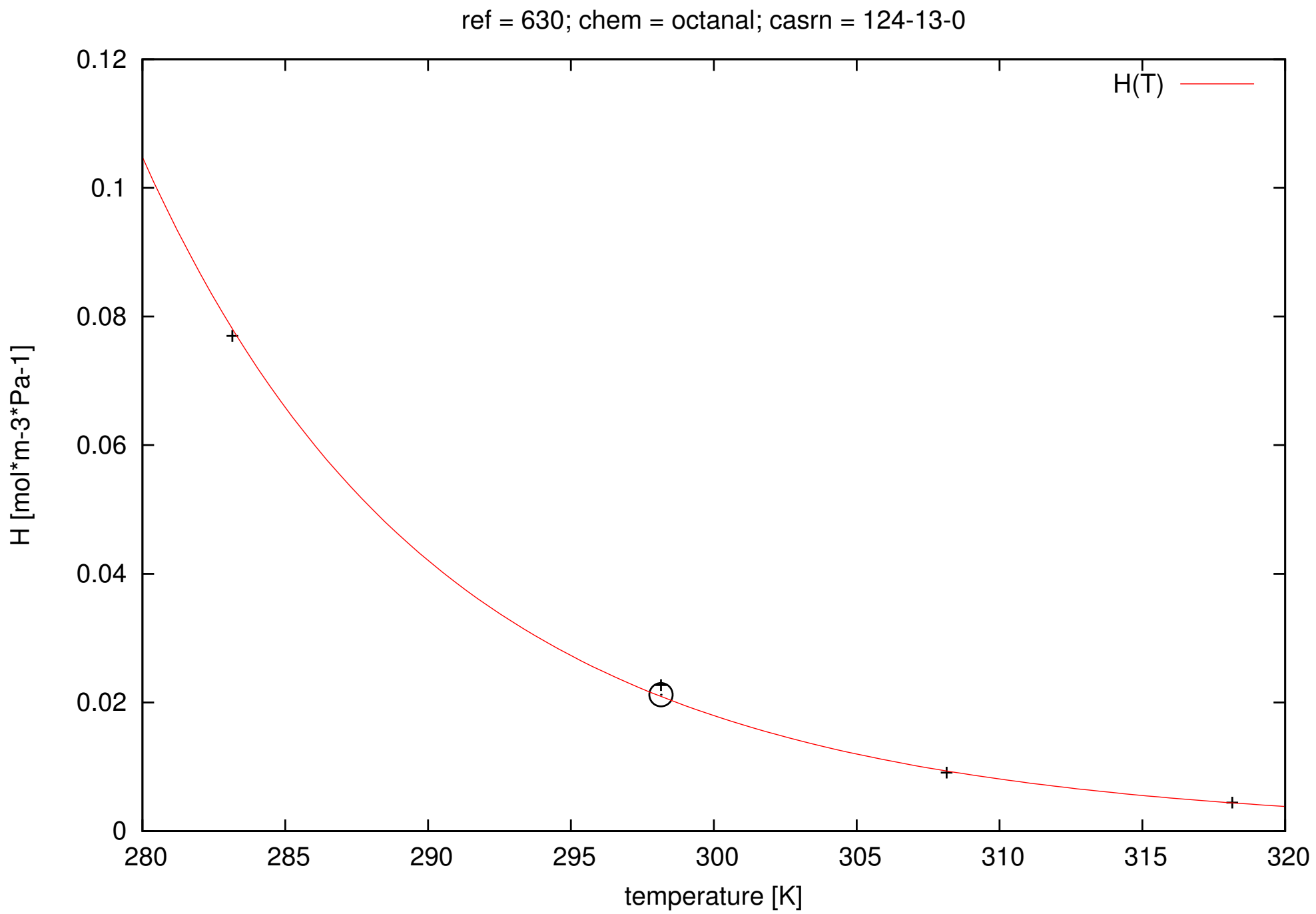

ref = 630; chem = pentanal; casrn = 110-62-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.25
0.2
0.15
0.1
0.05
0
280
285
290
295
300
305
310
315
320

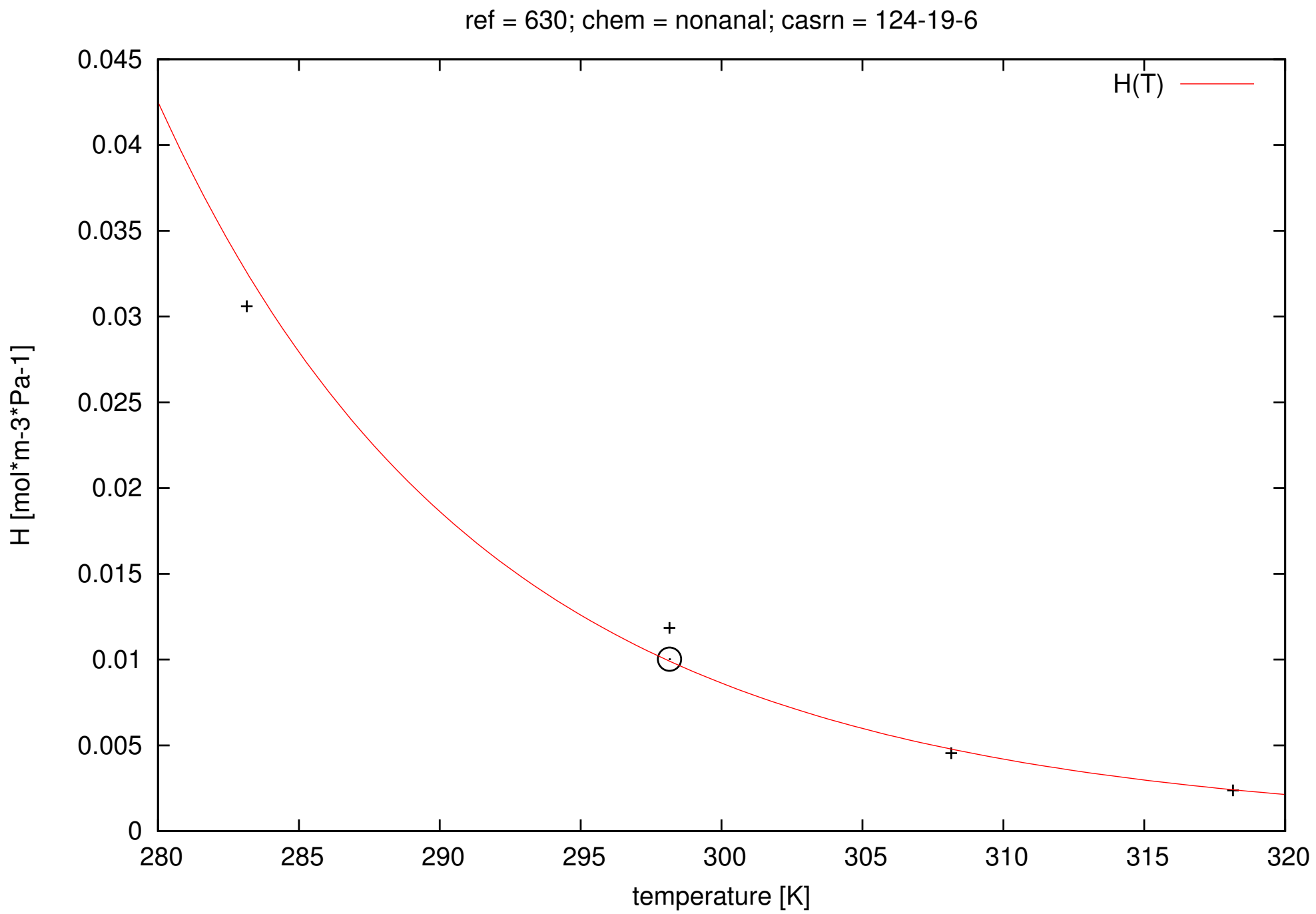

ref = 630; chem = heptanal; casrn = 111-71-7
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
280
285
290
295
300
305
310
315
320

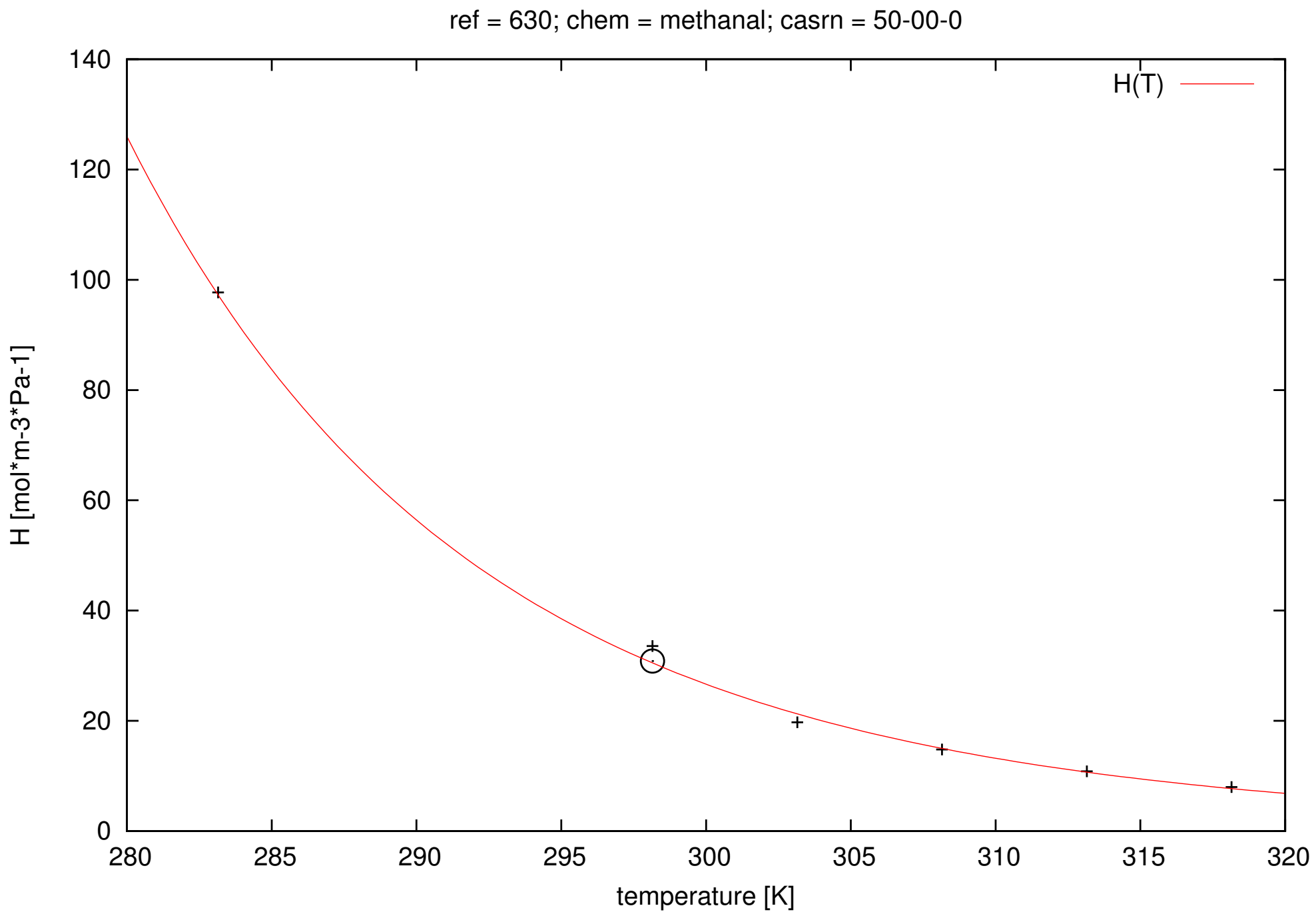

ref = 630; chem = decanal; casrn = 112-31-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
290
295
300
305
310
315
320

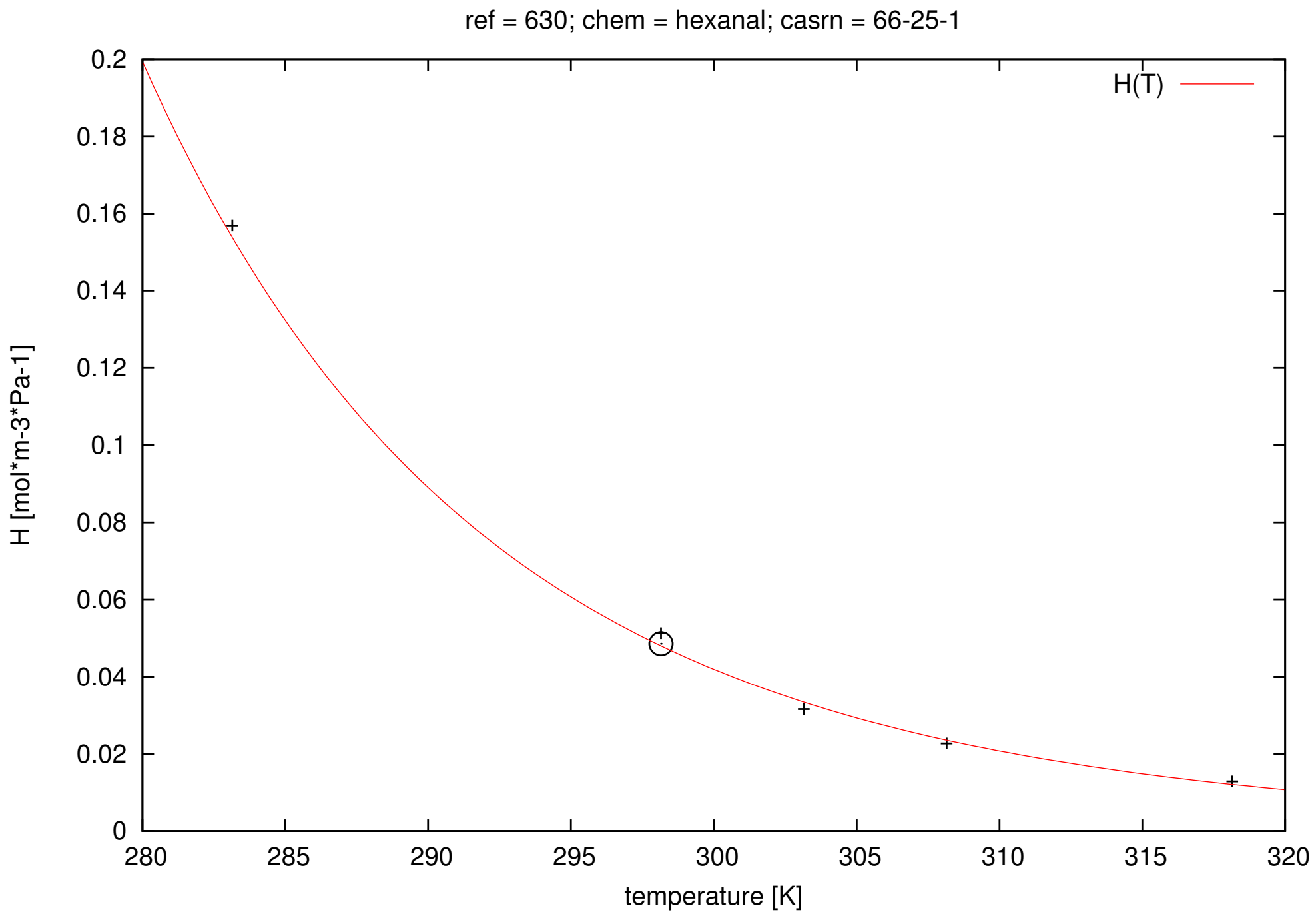

ref = 630; chem = propanal; casrn = 123-38-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
280
285
290
295
300
305
310
315
320

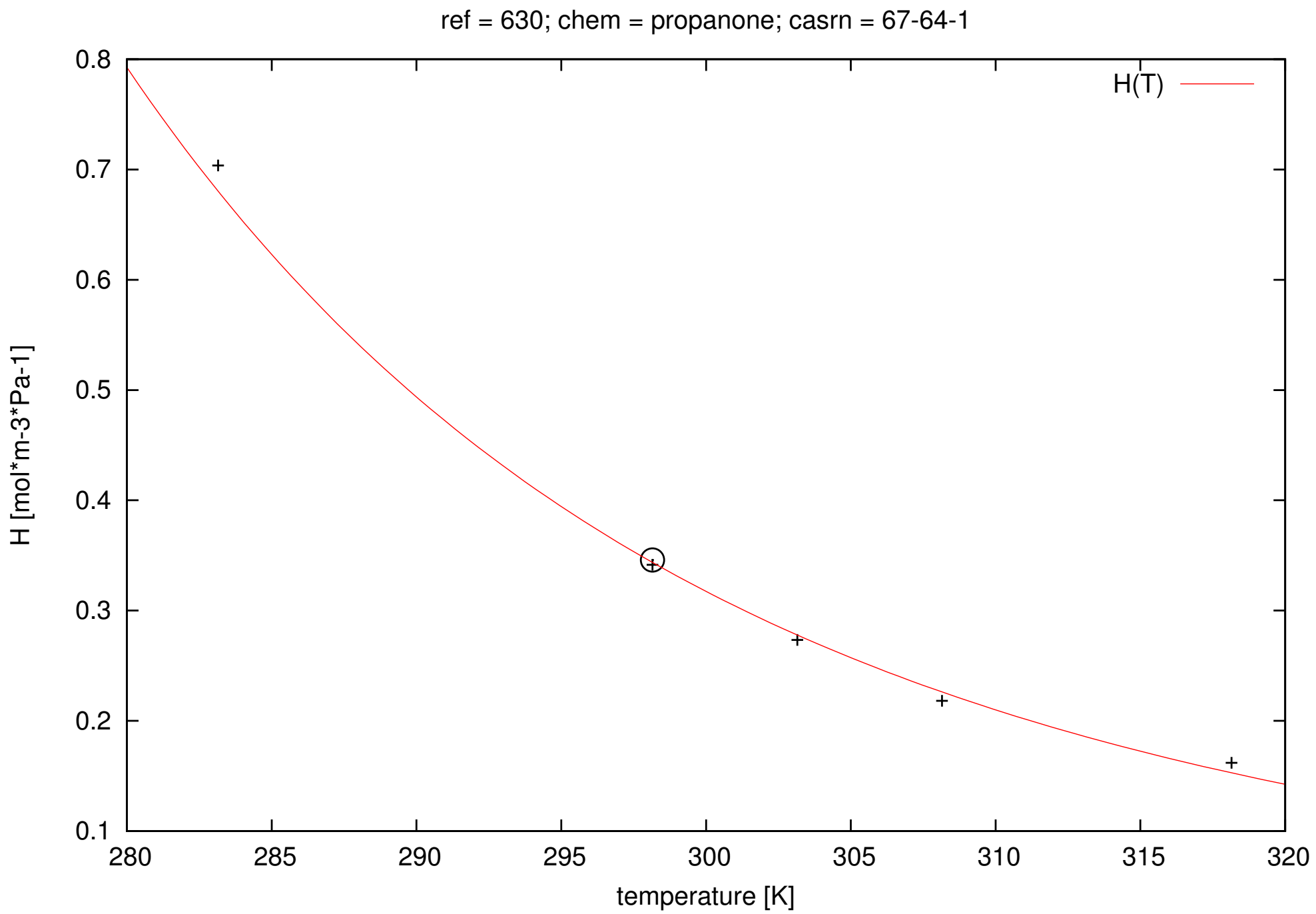

ref = 630; chem = butanal; casrn = 123-72-8
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
280
285
290
295
300
305
310
315
320

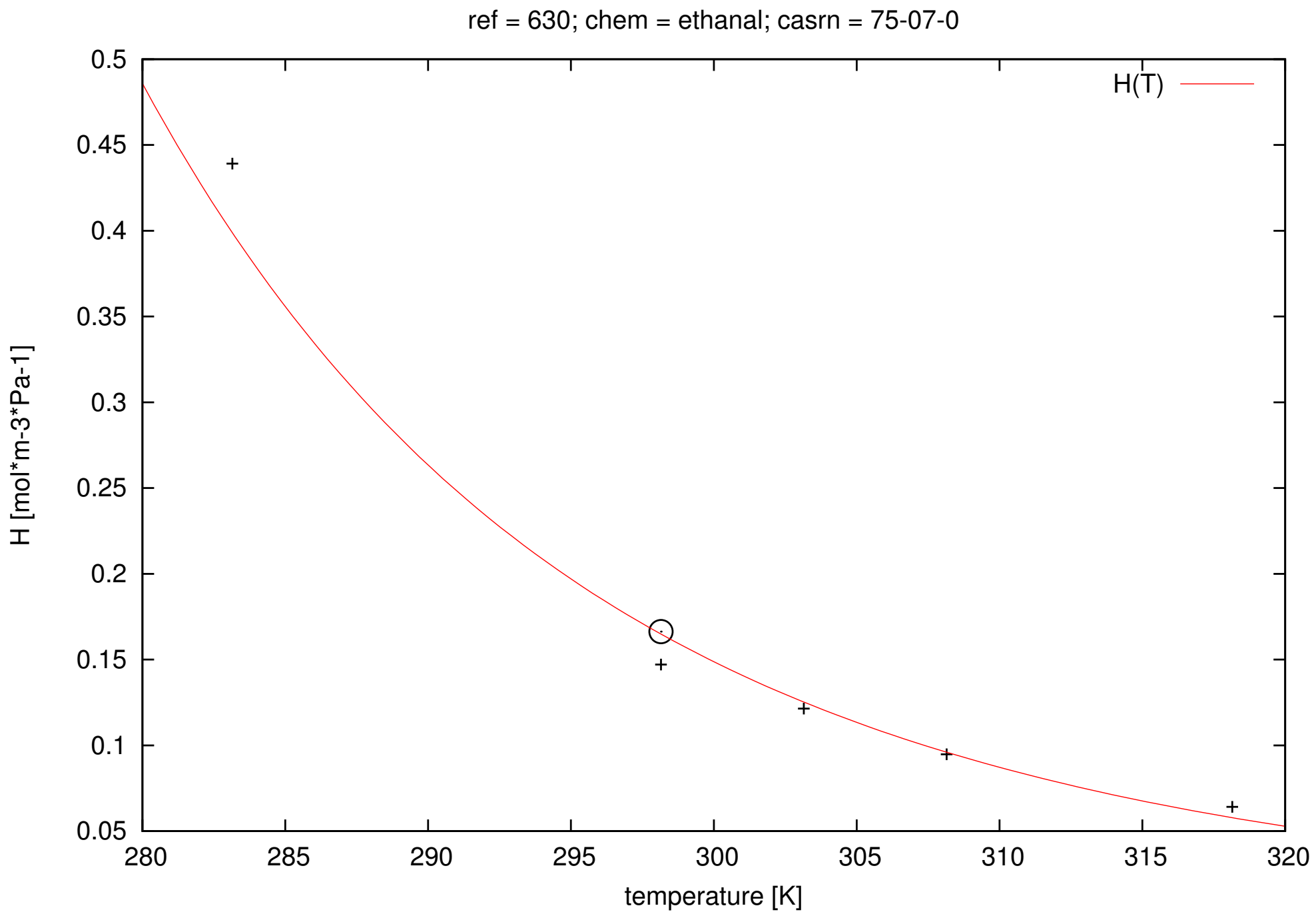

ref = 630; chem = octanal; casrn = 124-13-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.12
0.1
0.08
0.06
0.04
0.02
0
280
285
290
295
300
305
310
315
320

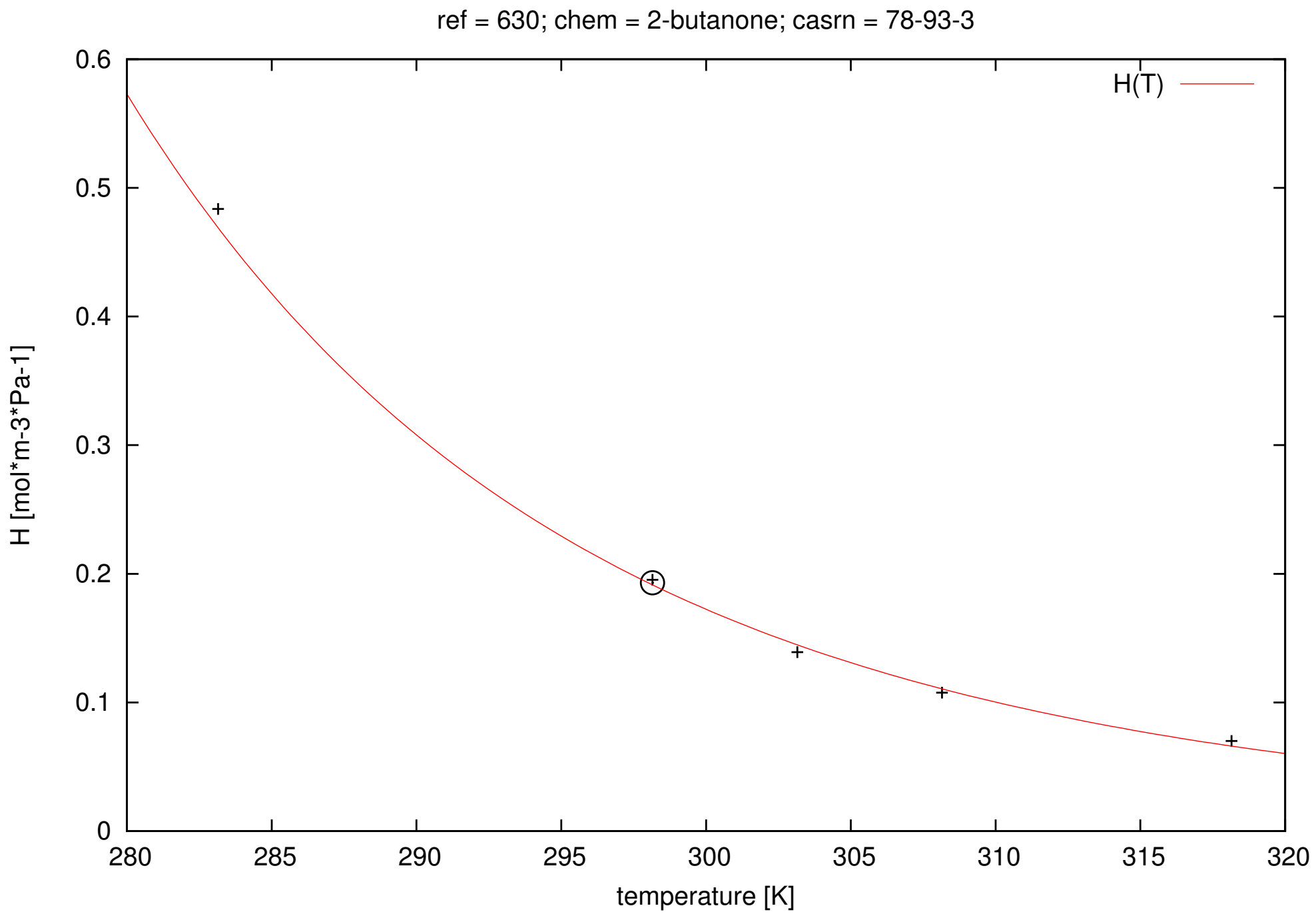

ref = 630; chem = nonanal; casrn = 124-19-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
280
285
290
295
300
305
310
315
320

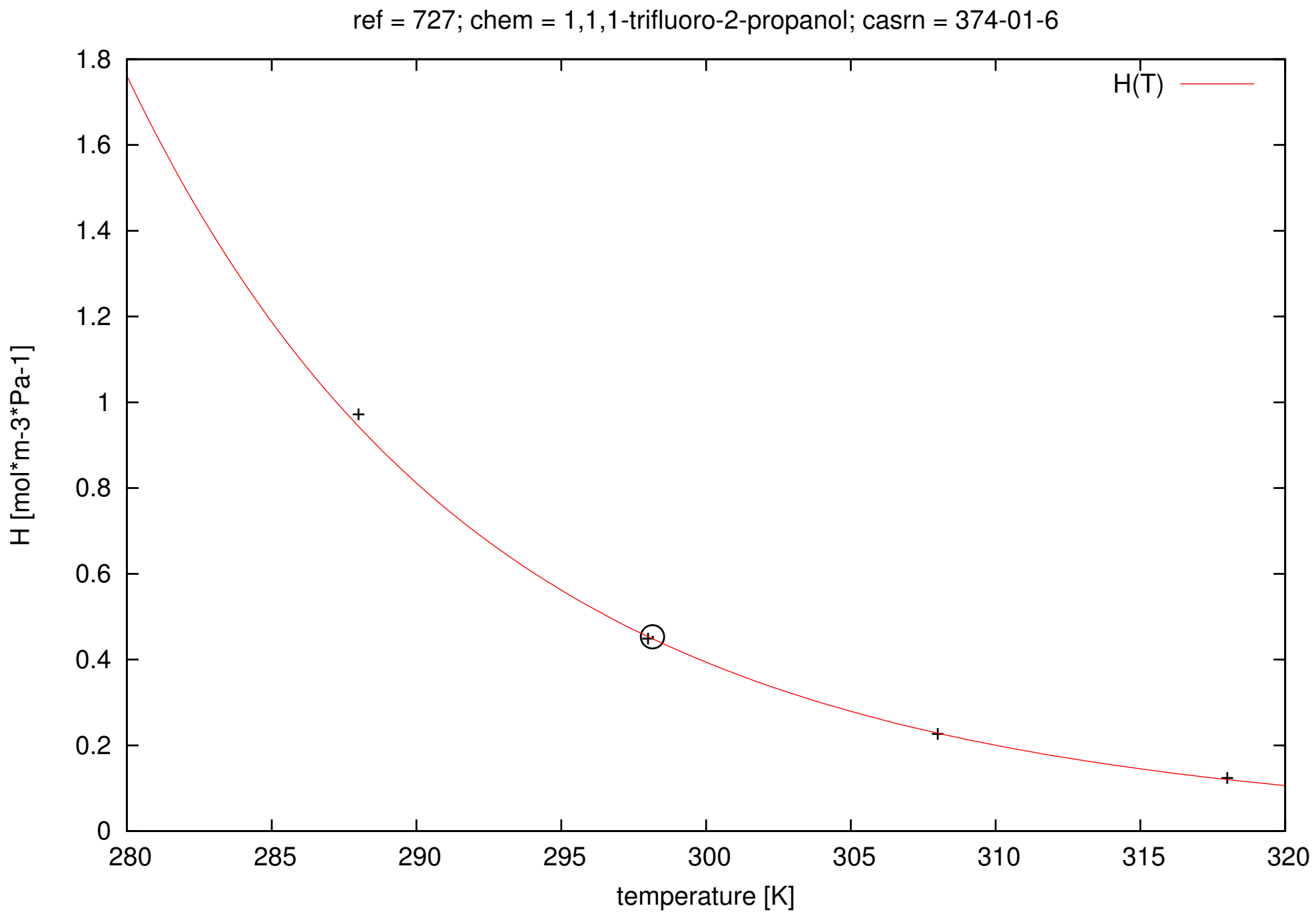

ref = 630; chem = methanal; casrn = 50-00-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0
20
40
60
80
100
120
140
280
285
290
295
300
305
310
315
320

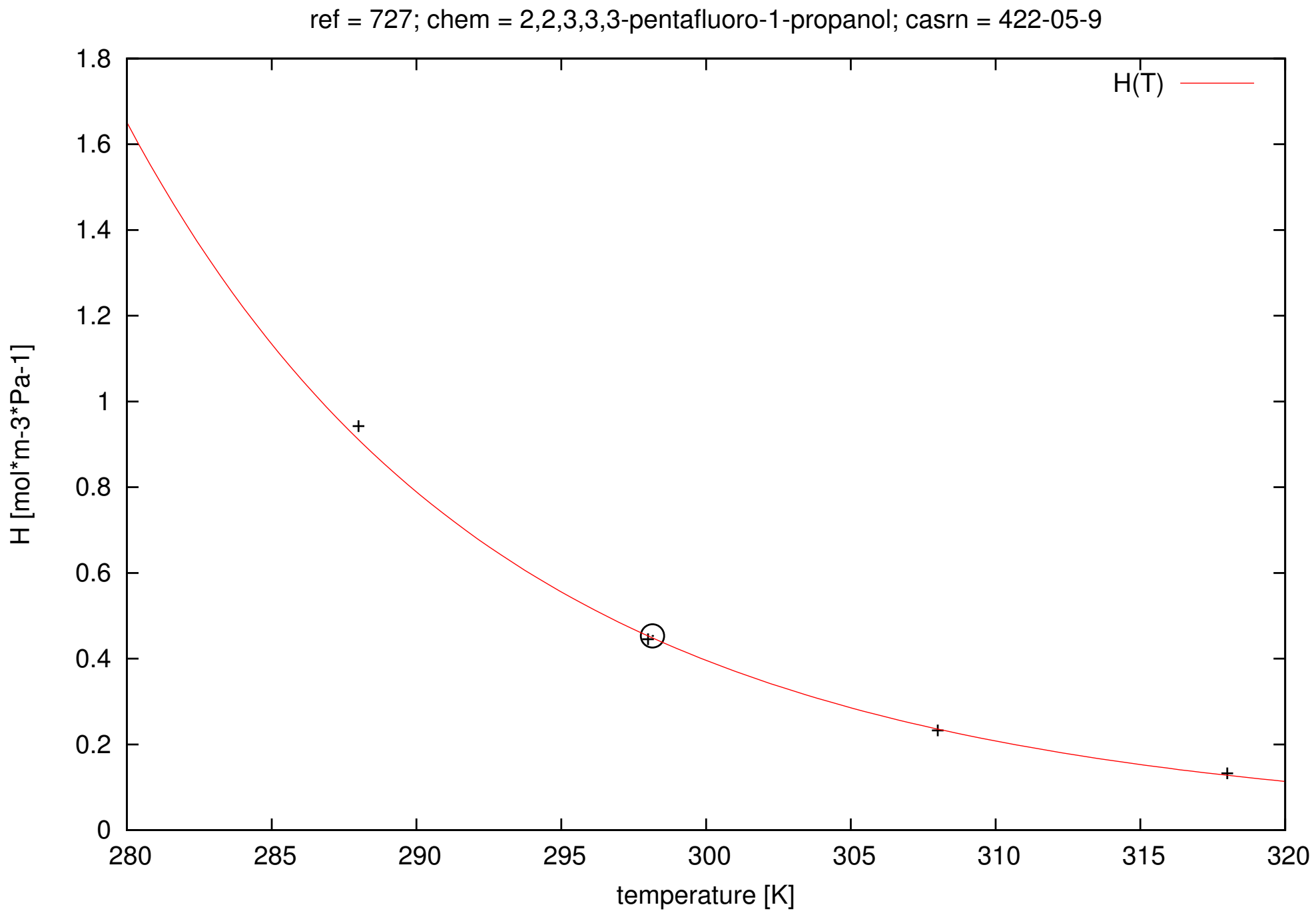

ref = 630; chem = hexanal; casrn = 66-25-1
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
280
285
290
295
300
305
310
315
320

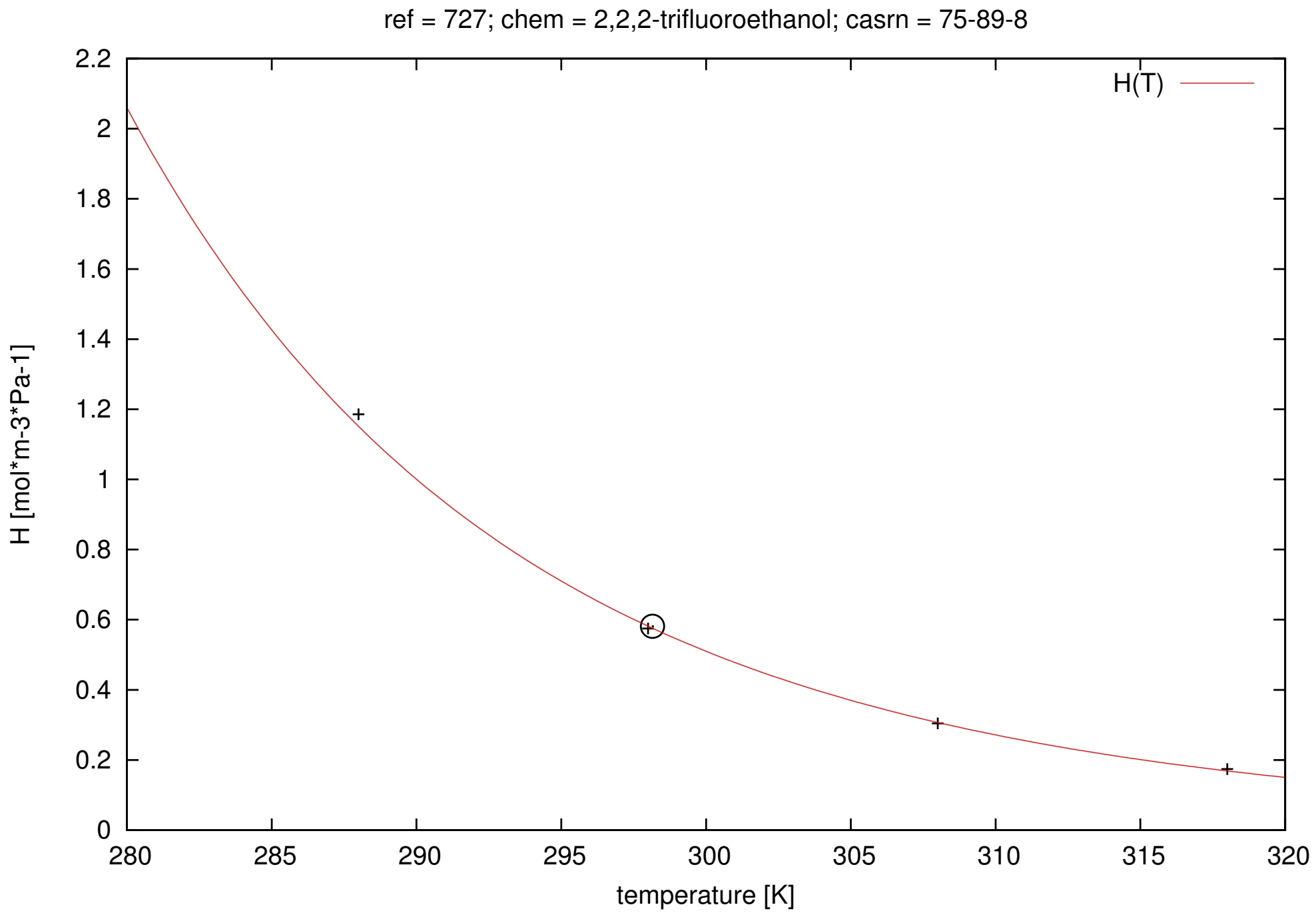

ref = 630; chem = propanone; casrn = 67-64-1
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
280
285
290
295
300
305
310
315
320

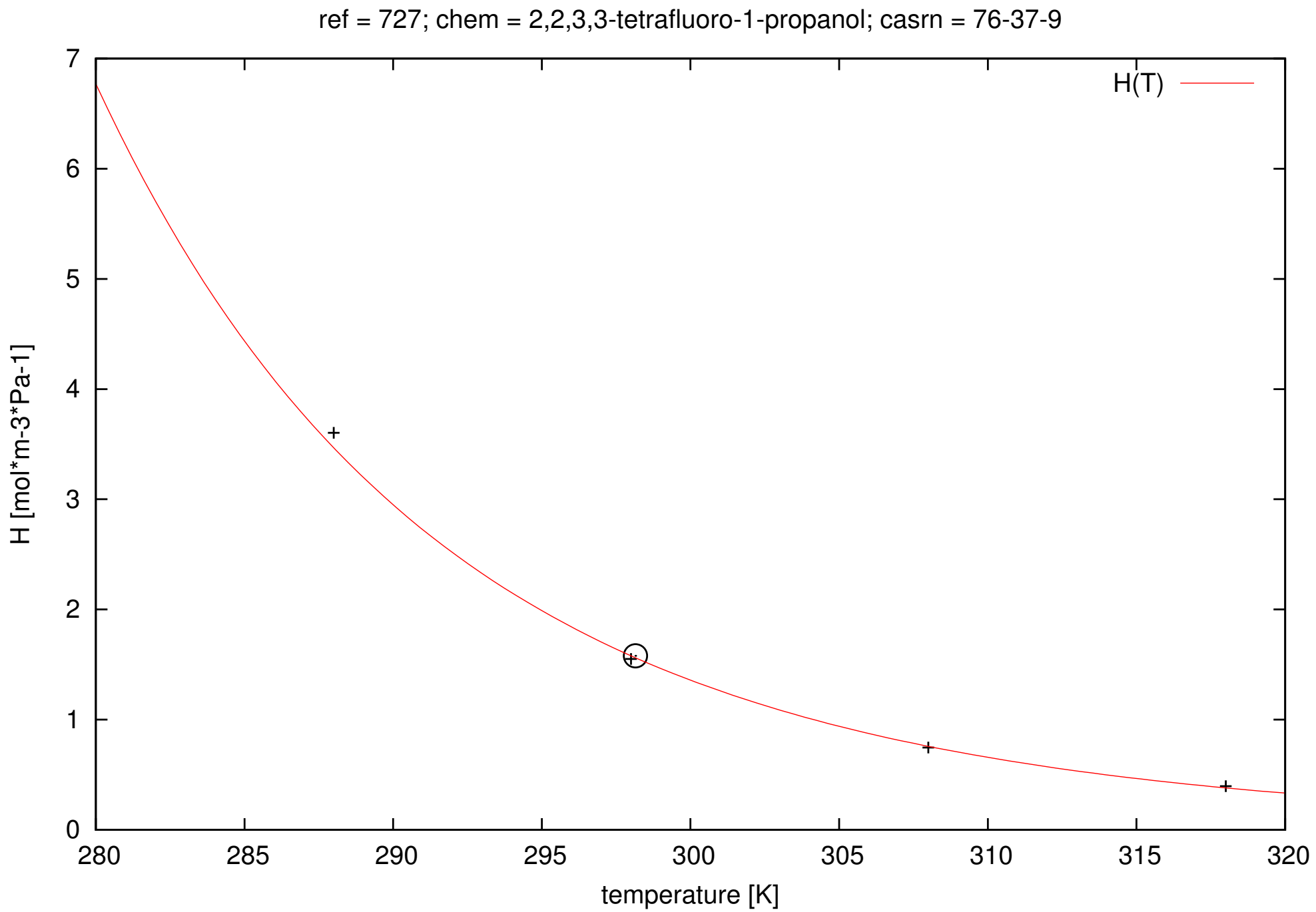

ref = 630; chem = ethanal; casrn = 75-07-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
280
285
290
295
300
305
310
315
320

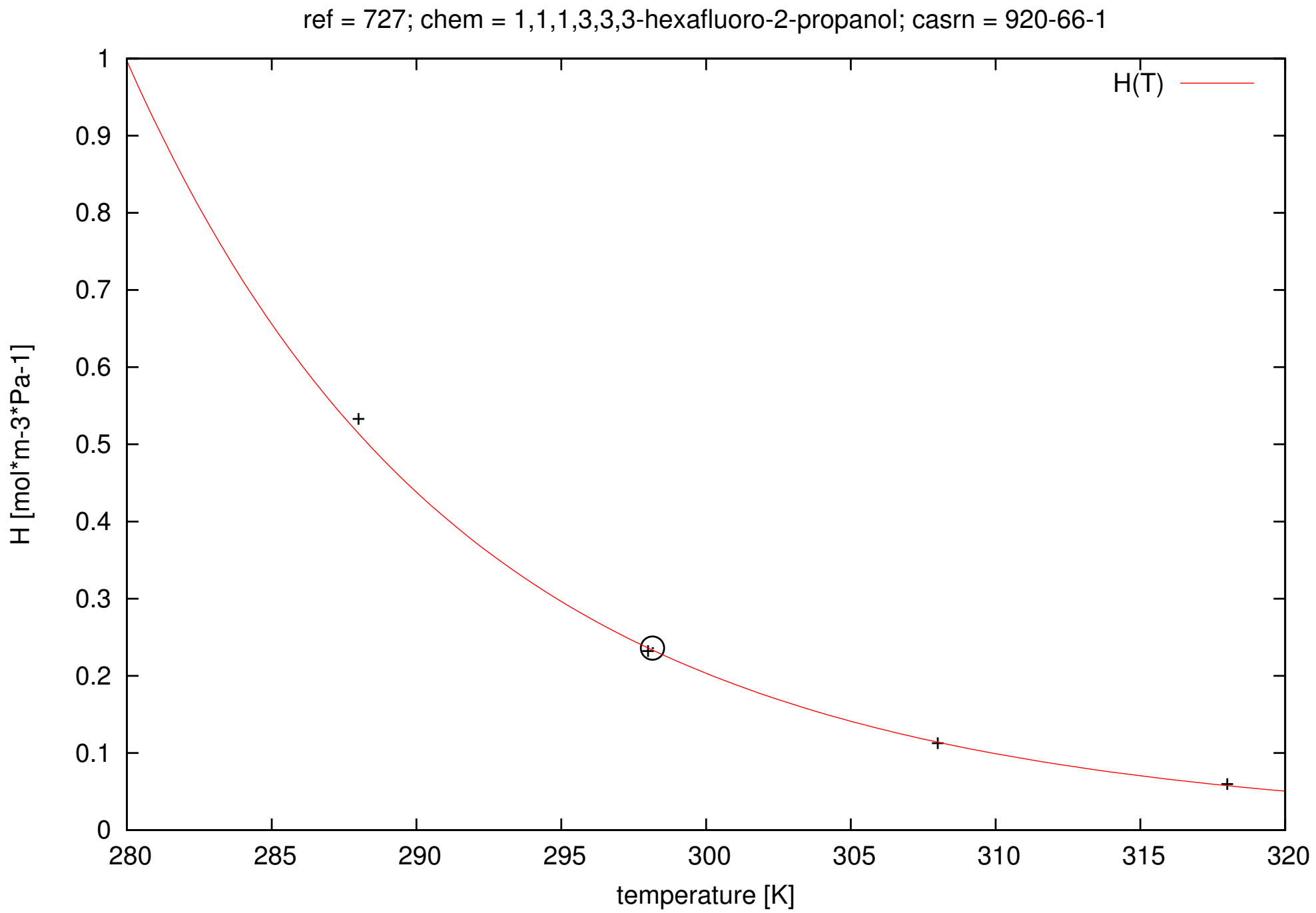

ref = 630; chem = 2-butanone; casrn = 78-93-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.6
0.5
0.4
0.3
0.2
0.1
0
280
285
290
295
300
305
310
315
320

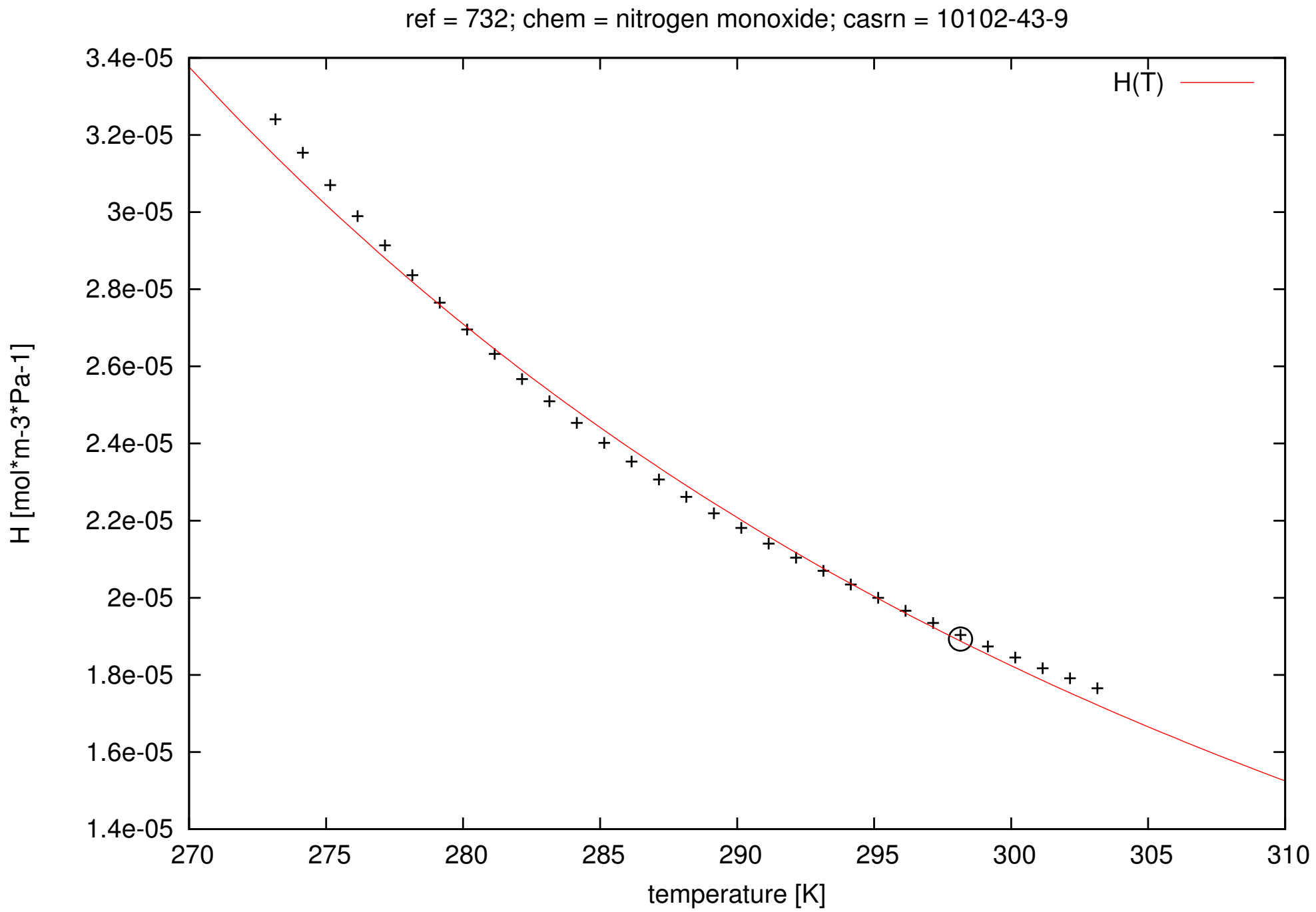

ref = 727; chem = 1,1,1-trifluoro-2-propanol; casrn = 374-01-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
280
285
290
295
300
305
310
315
320

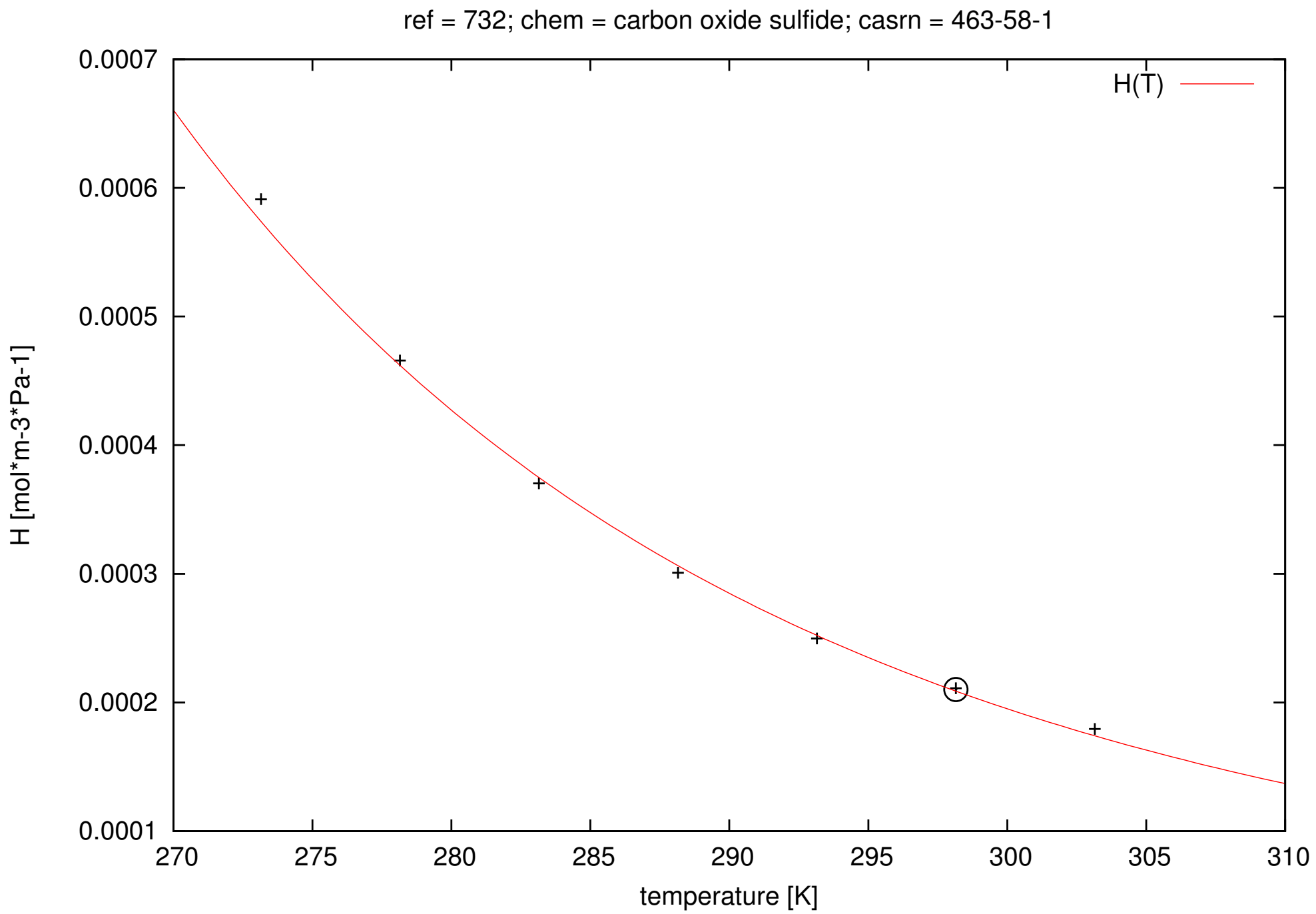

ref = 727; chem = 2,2,3,3,3-pentafluoro-1-propanol; casrn = 422-05-9
H(T)
H [mol*m-3*Pa-1]
temperature [K]
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
280
285
290
295
300
305
310
315
320

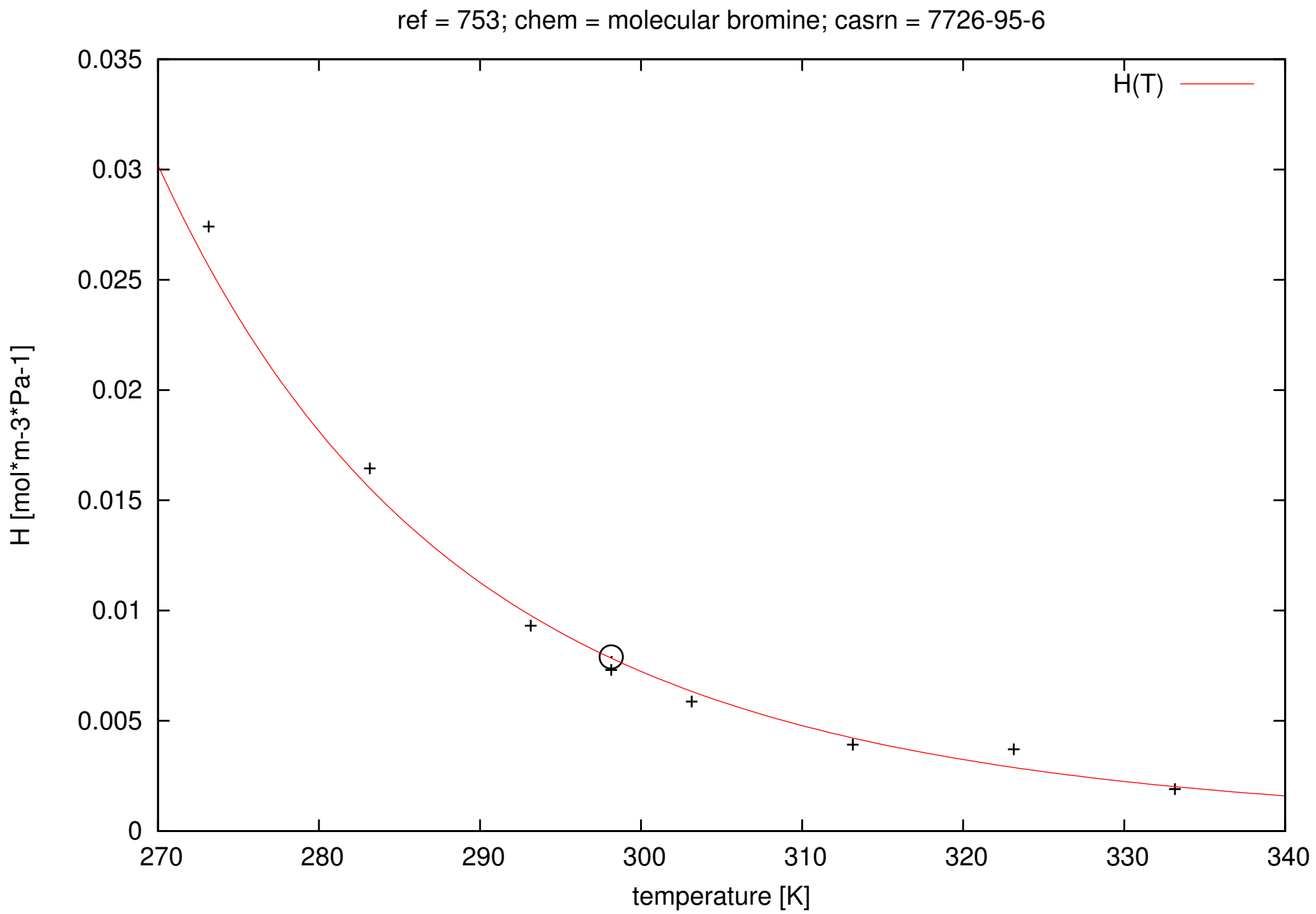

ref = 727; chem = 2,2,2-trifluoroethanol; casrn = 75-89-8
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
2.2
280
285
290
295
300
305
310
315
320

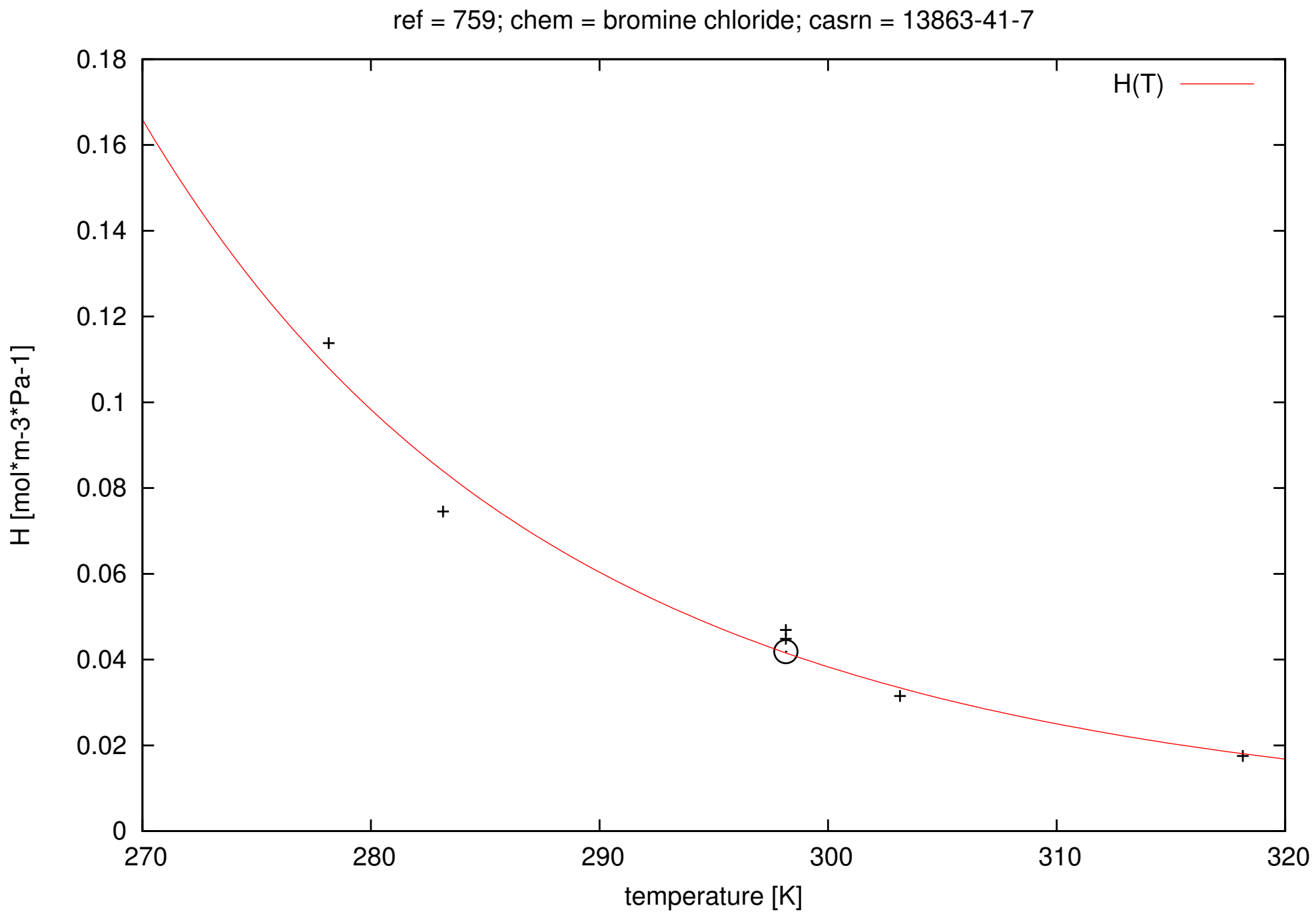

ref = 727; chem = 2,2,3,3-tetrafluoro-1-propanol; casrn = 76-37-9
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0
1
2
3
4
5
6
7
280
285
290
295
300
305
310
315
320

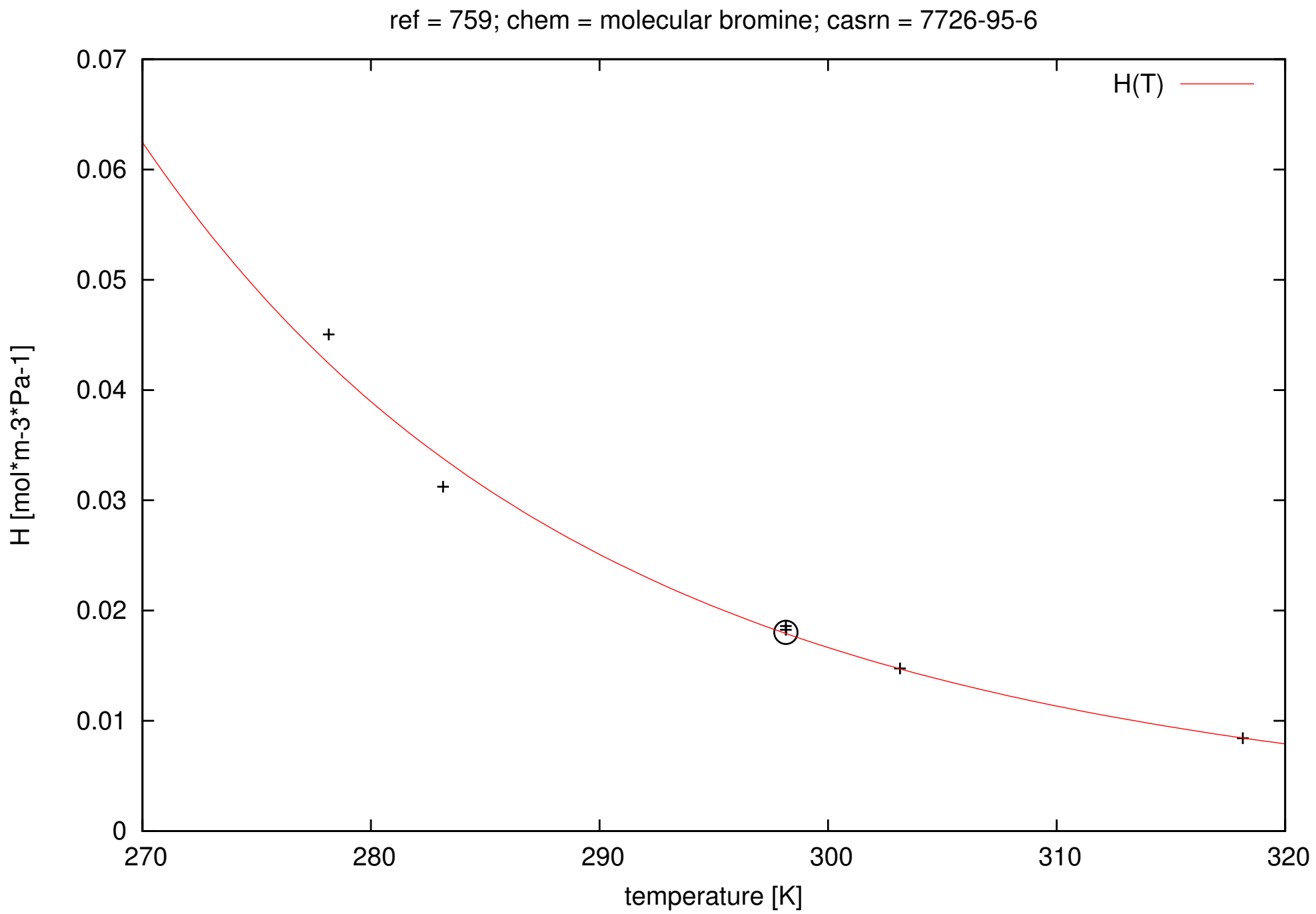

ref = 727; chem = 1,1,1,3,3,3-hexafluoro-2-propanol; casrn = 920-66-1
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
280
285
290
295
300
305
310
315
320

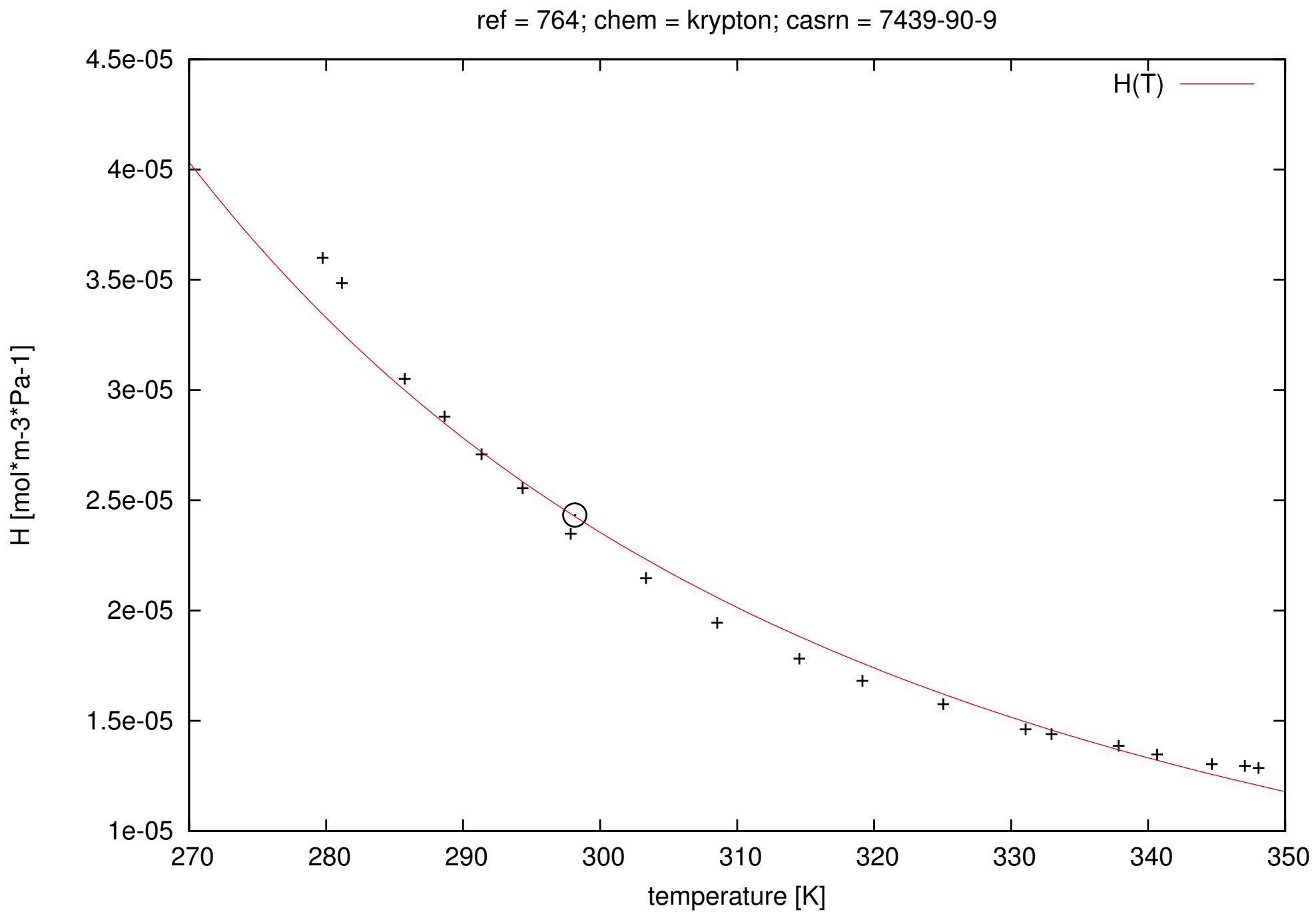

ref = 732; chem = nitrogen monoxide; casrn = 10102-43-9
H(T)
H [mol*m-3*Pa-1]
temperature [K]
3.4e-05
3.2e-05
3e-05
2.8e-05
2.6e-05
2.4e-05
2.2e-05
2e-05
1.8e-05
1.6e-05
1.4e-05
270
275
280
285
290
295
300
305
310

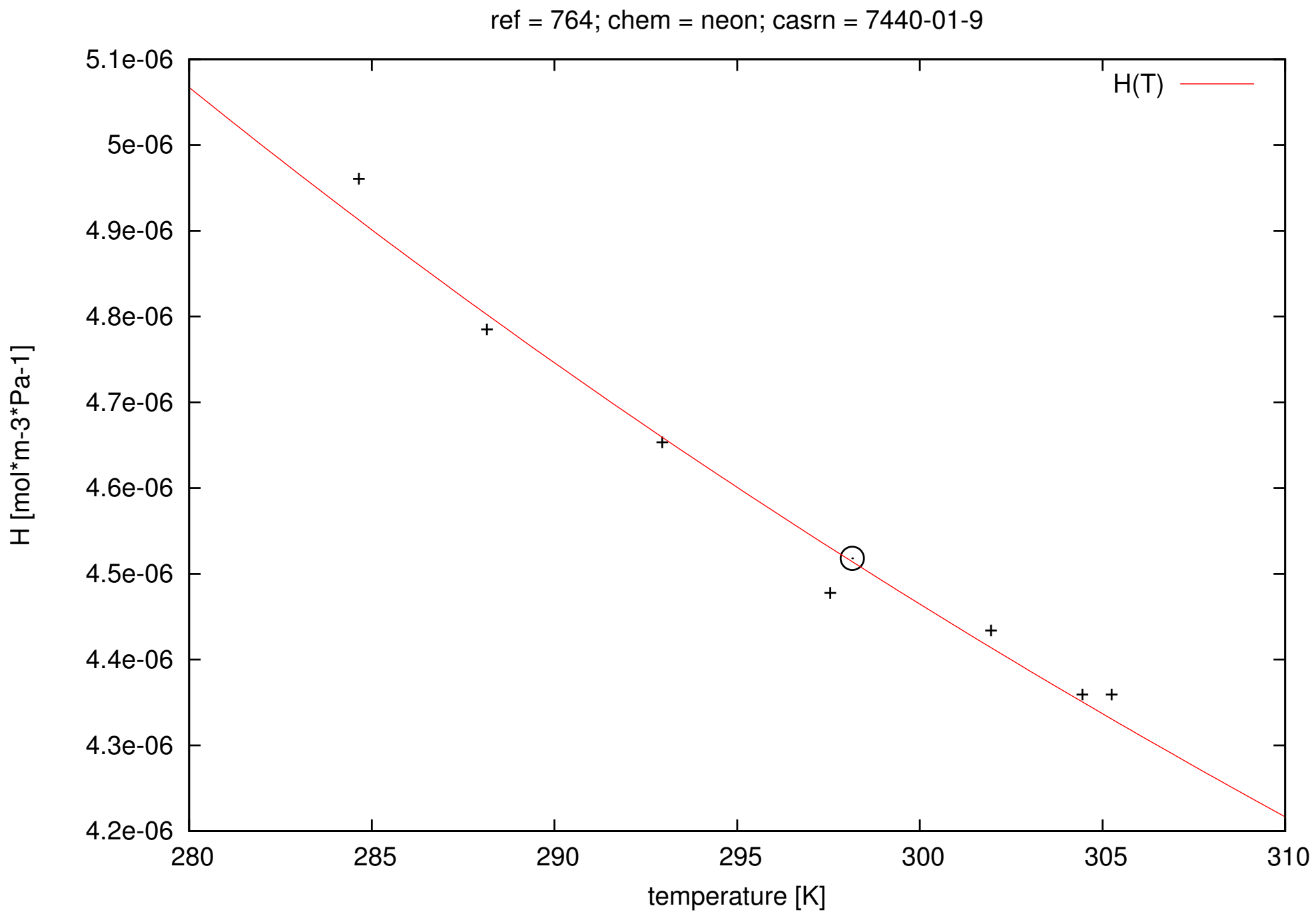

ref = 732; chem = carbon oxide sulfide; casrn = 463-58-1
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
270
275
280
285
290
295
300
305
310

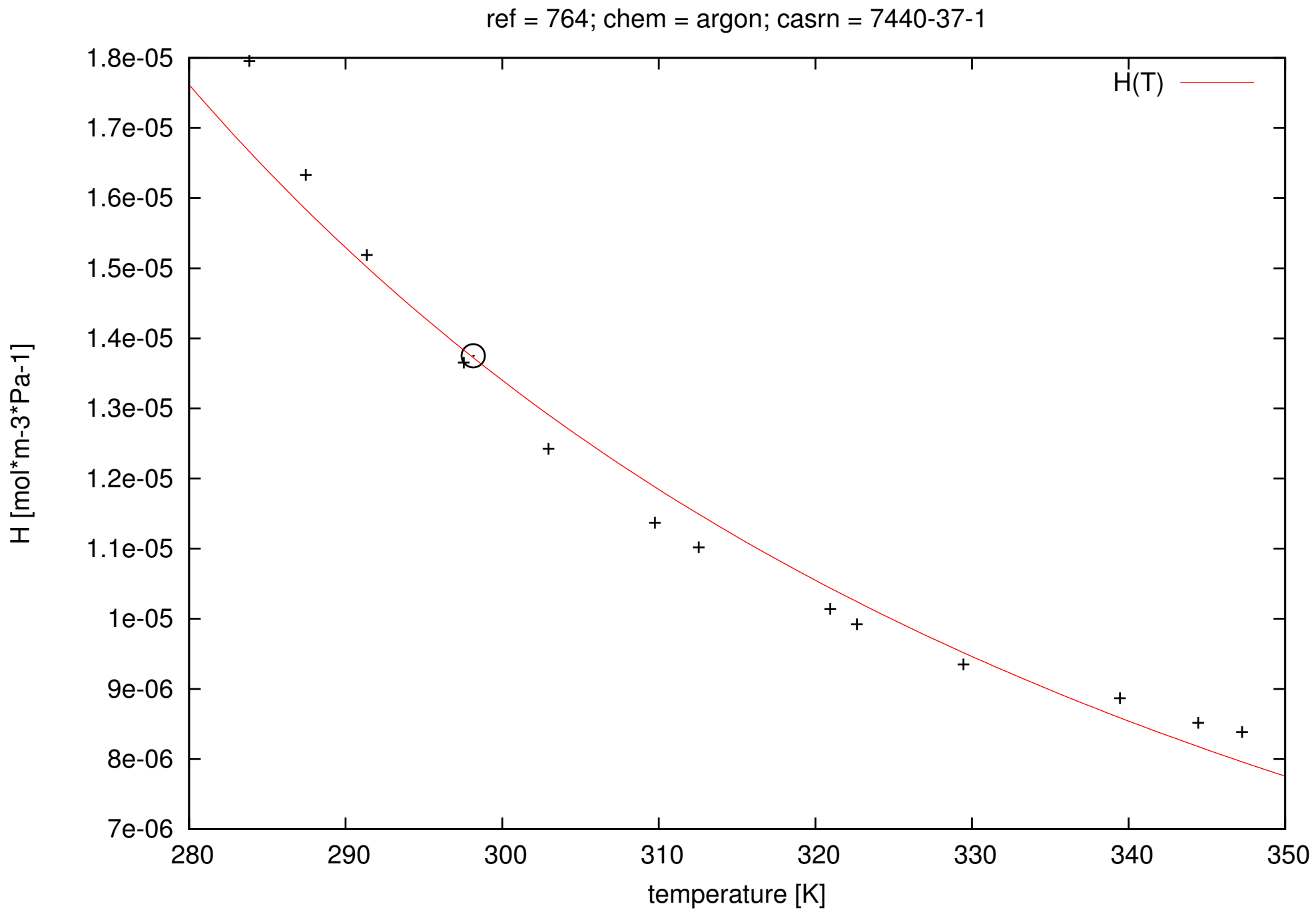

ref = 753; chem = molecular bromine; casrn = 7726-95-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
270
280
290
300
310
320
330
340

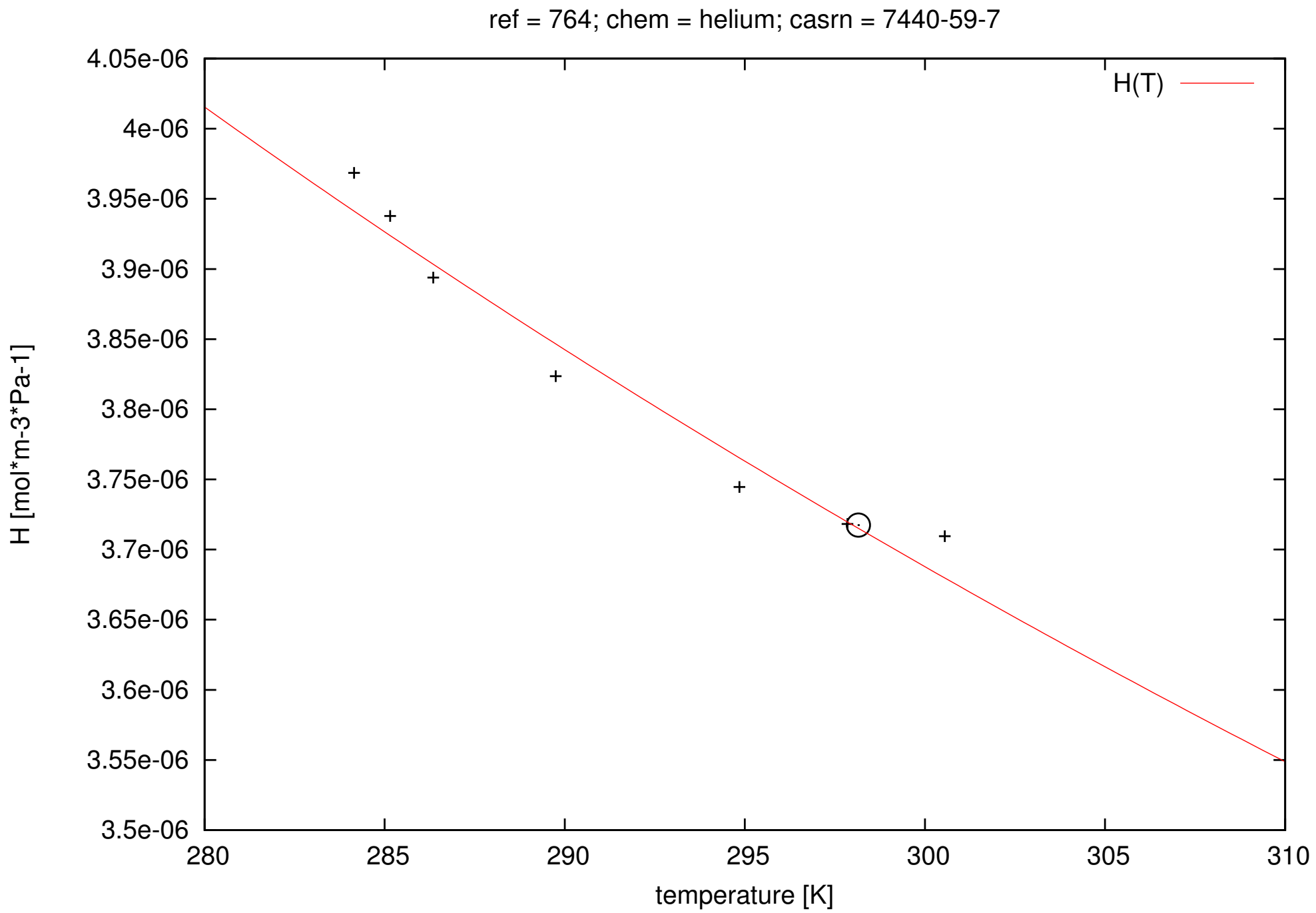

ref = 759; chem = bromine chloride; casrn = 13863-41-7
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
270
280
290
300
310
320

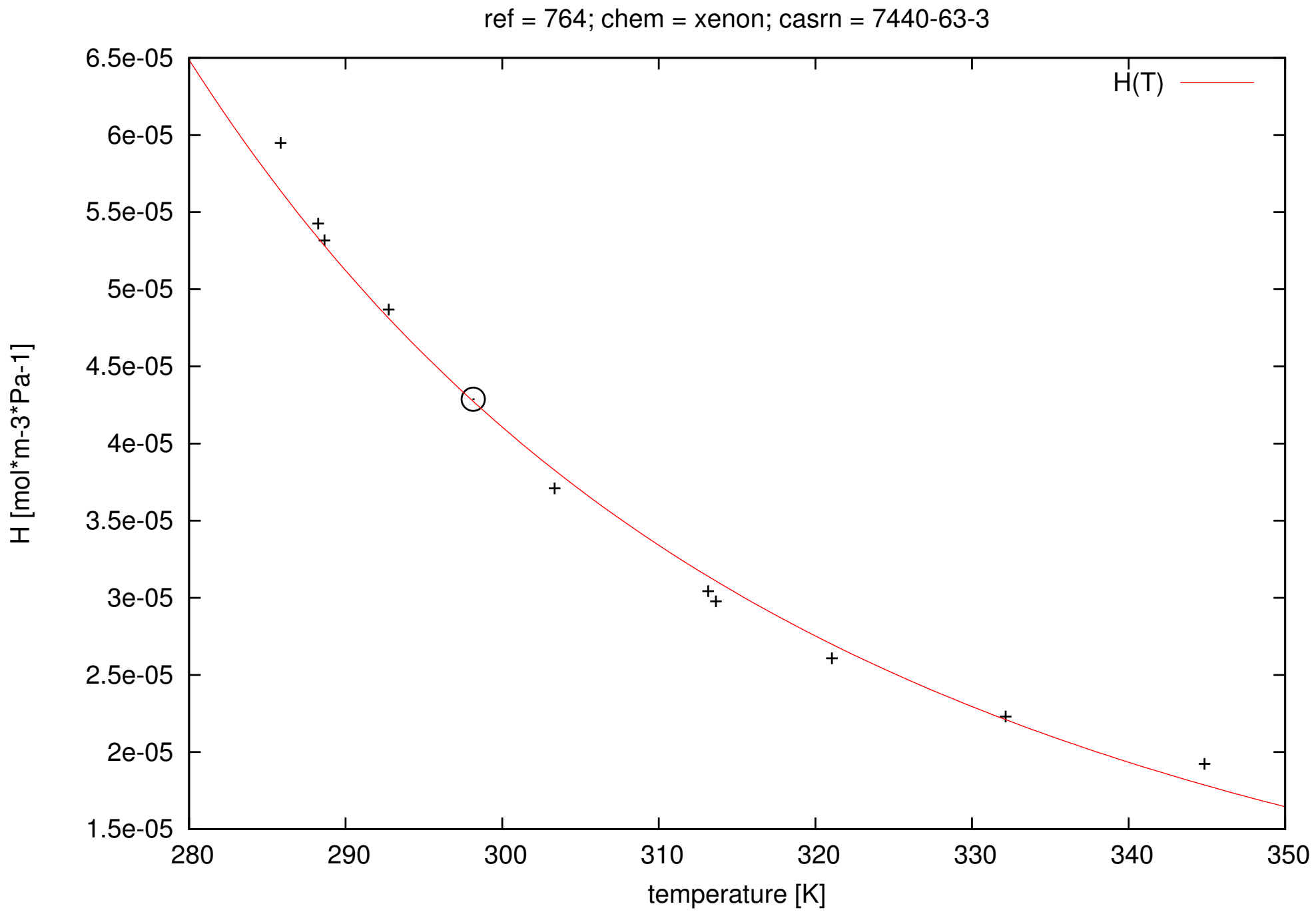

ref = 759; chem = molecular bromine; casrn = 7726-95-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
270
280
290
300
310
320

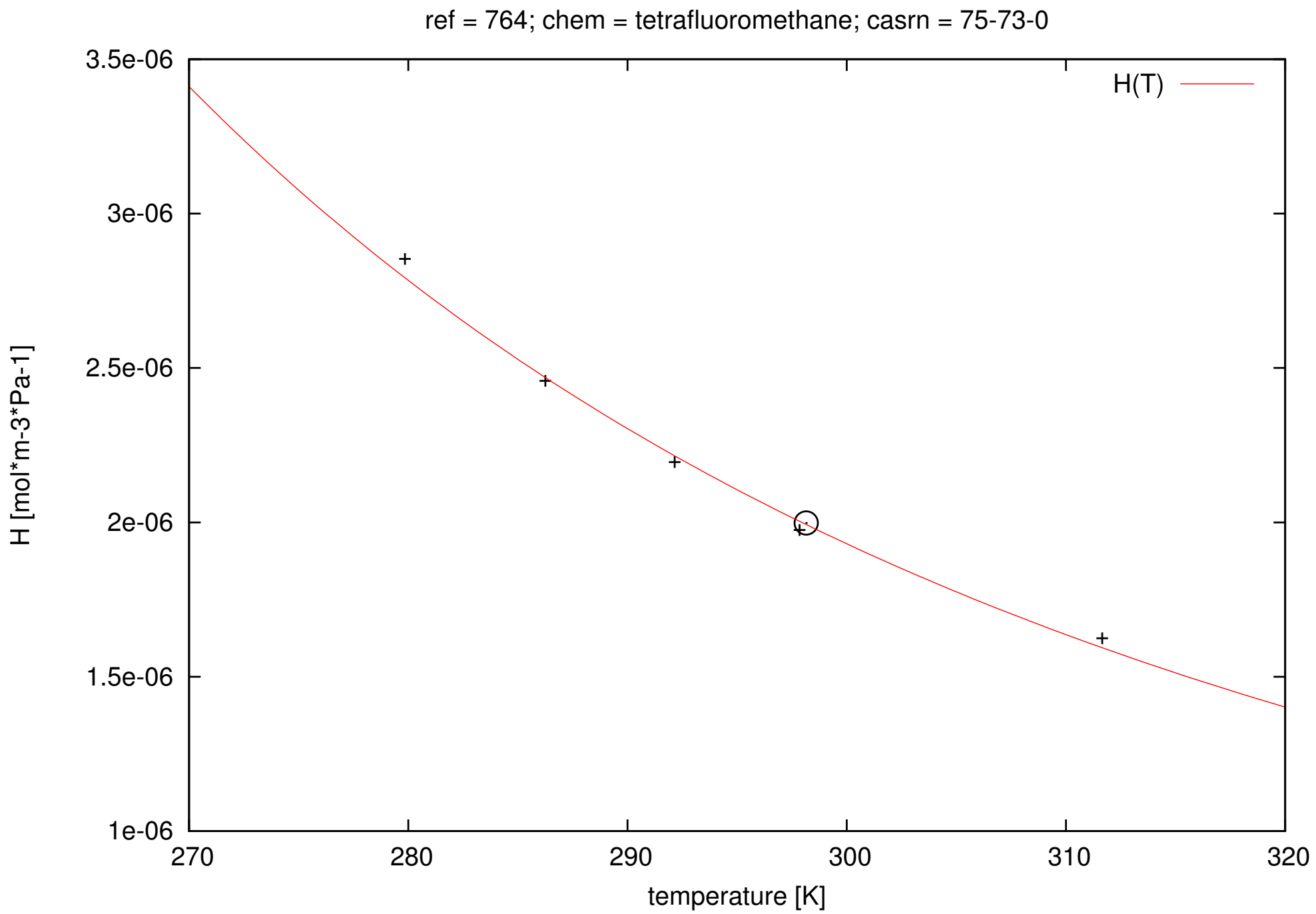

ref = 764; chem = krypton; casrn = 7439-90-9
H(T)
H [mol*m-3*Pa-1]
temperature [K]
4.5e-05
4e-05
3.5e-05
3e-05
2.5e-05
2e-05
1.5e-05
1e-05
270
280
290
300
310
320
330
340
350

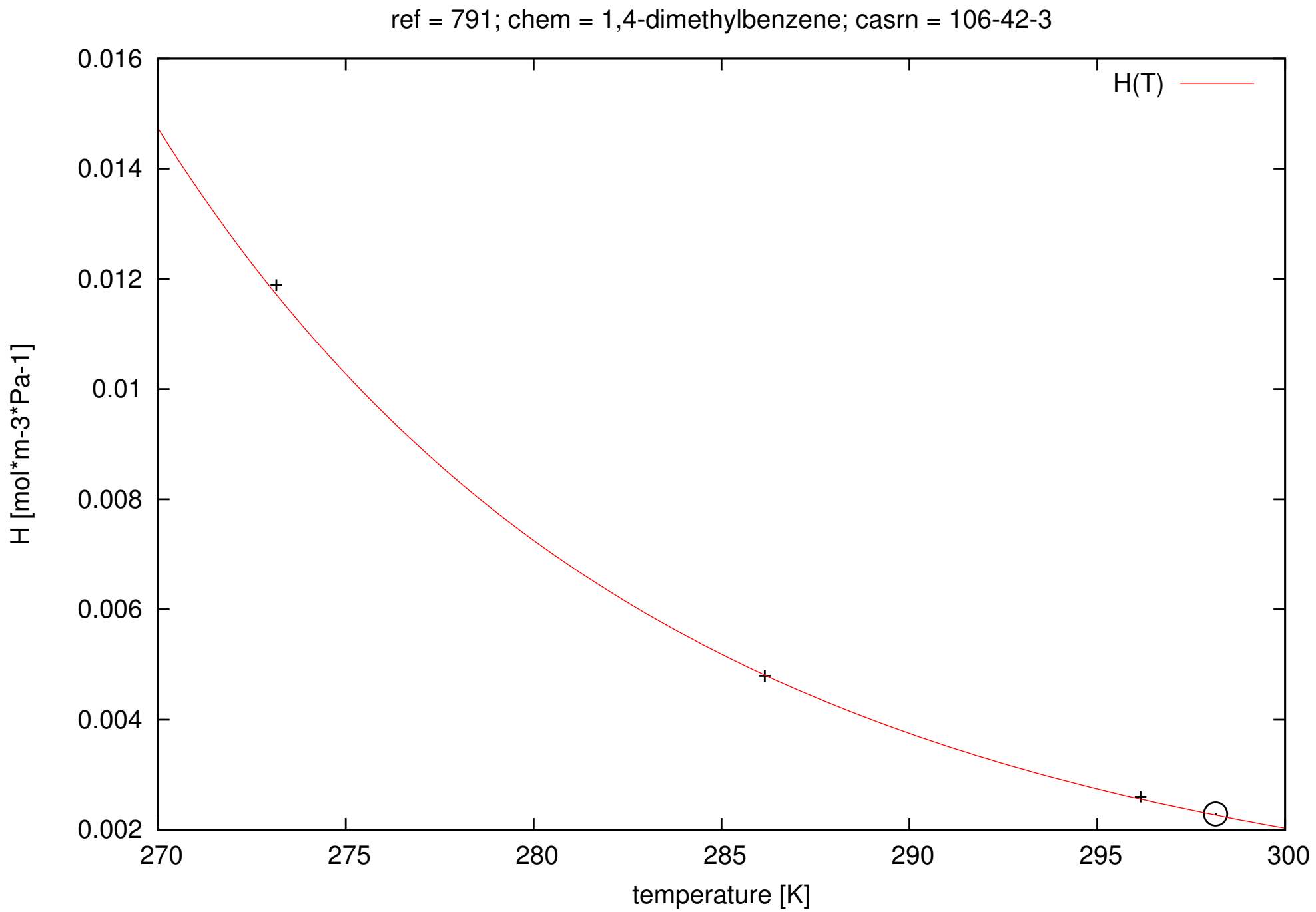

ref = 764; chem = neon; casrn = 7440-01-9
H(T)
H [mol*m-3*Pa-1]
temperature [K]
5.1e-06
5e-06
4.9e-06
4.8e-06
4.7e-06
4.6e-06
4.5e-06
4.4e-06
4.3e-06
4.2e-06
280
285
290
295
300
305
310

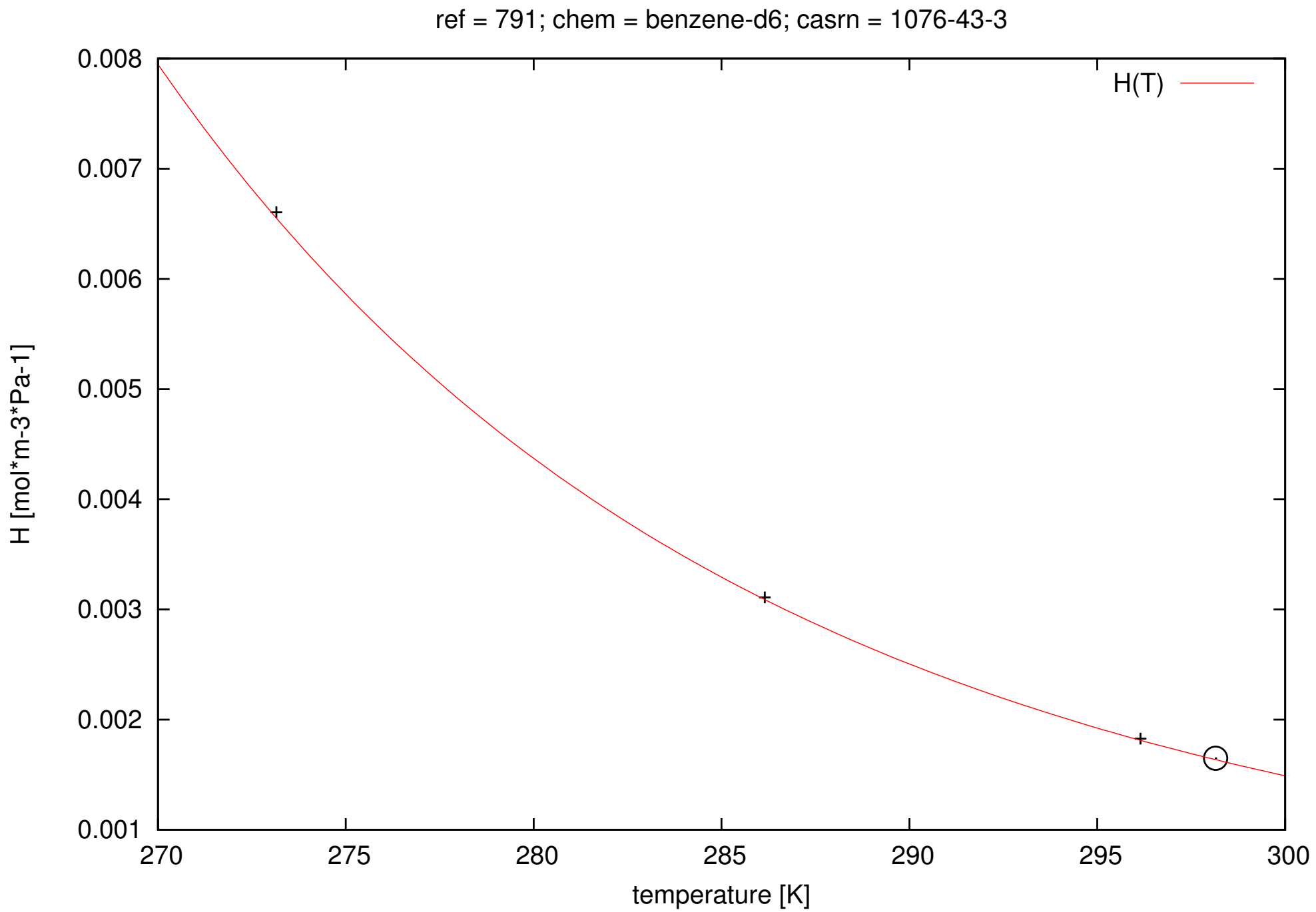

ref = 764; chem = argon; casrn = 7440-37-1
H(T)
H [mol*m-3*Pa-1]
temperature [K]
1.8e-05
1.7e-05
1.6e-05
1.5e-05
1.4e-05
1.3e-05
1.2e-05
1.1e-05
1e-05
9e-06
8e-06
7e-06
280
290
300
310
320
330
340
350

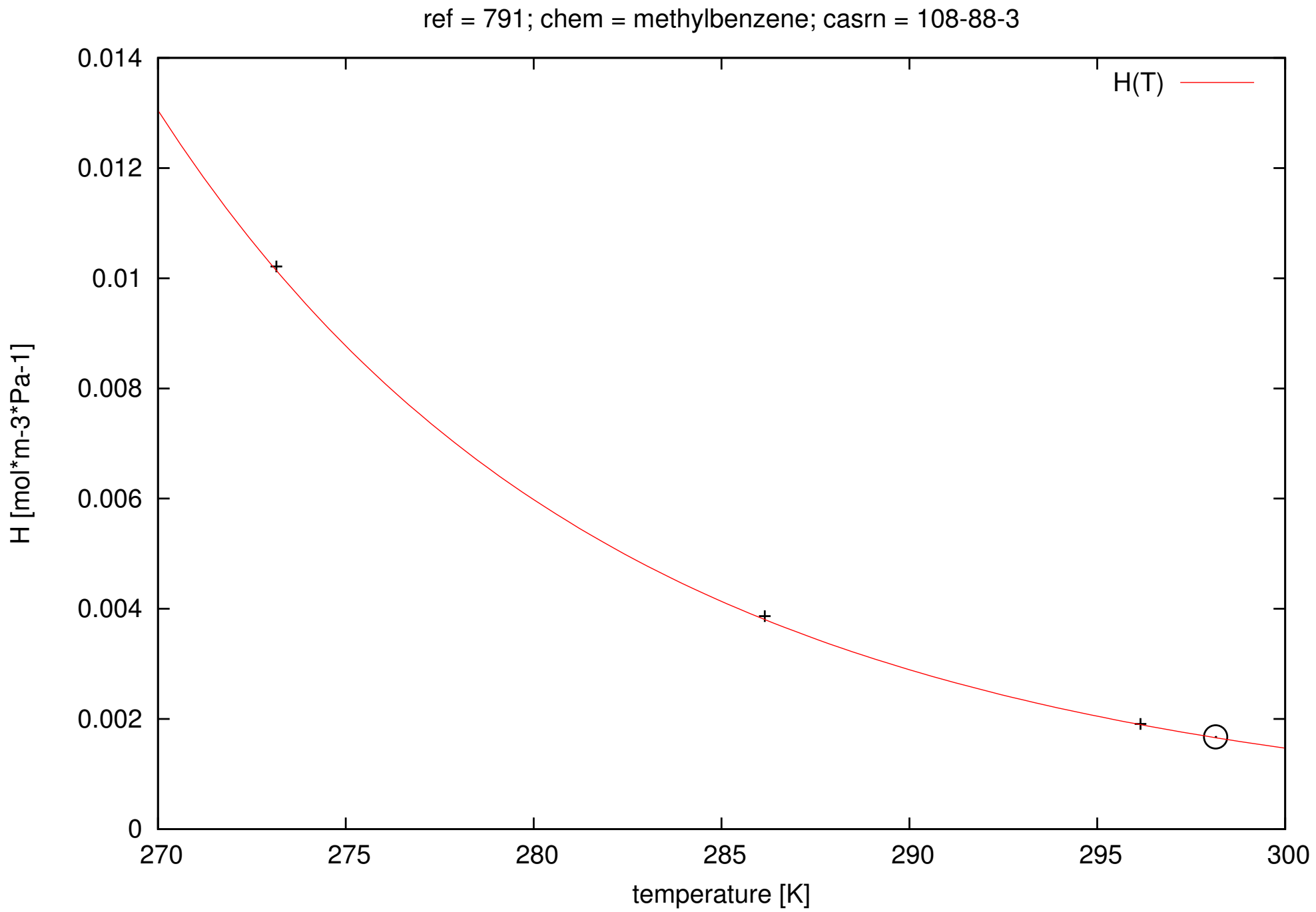

ref = 764; chem = helium; casrn = 7440-59-7
H(T)
H [mol*m-3*Pa-1]
temperature [K]
4.05e-06
4e-06
3.95e-06
3.9e-06
3.85e-06
3.8e-06
3.75e-06
3.7e-06
3.65e-06
3.6e-06
3.55e-06
3.5e-06
280
285
290
295
300
305
310

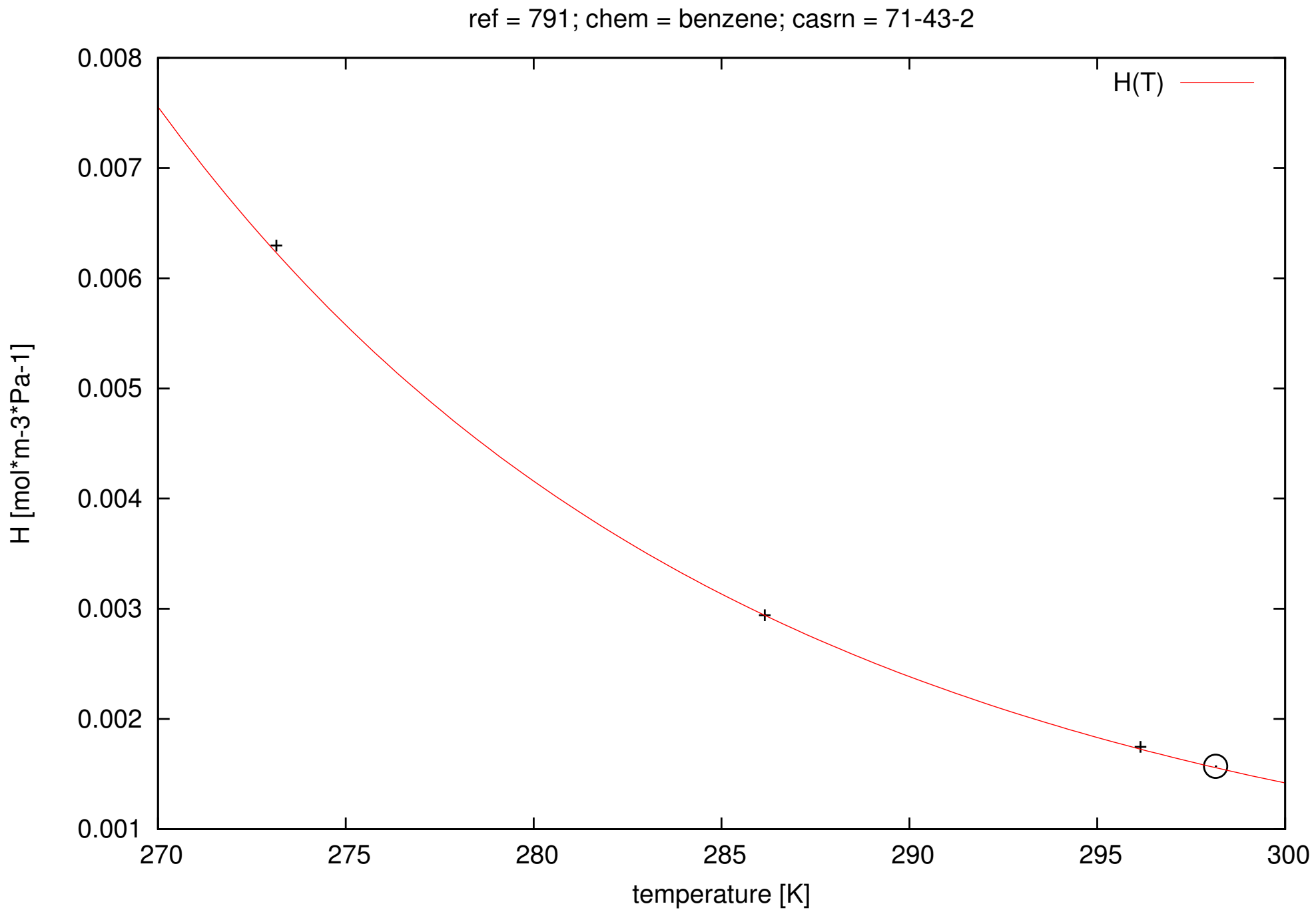

ref = 764; chem = xenon; casrn = 7440-63-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
6.5e-05
6e-05
5.5e-05
5e-05
4.5e-05
4e-05
3.5e-05
3e-05
2.5e-05
2e-05
1.5e-05
280
290
300
310
320
330
340
350

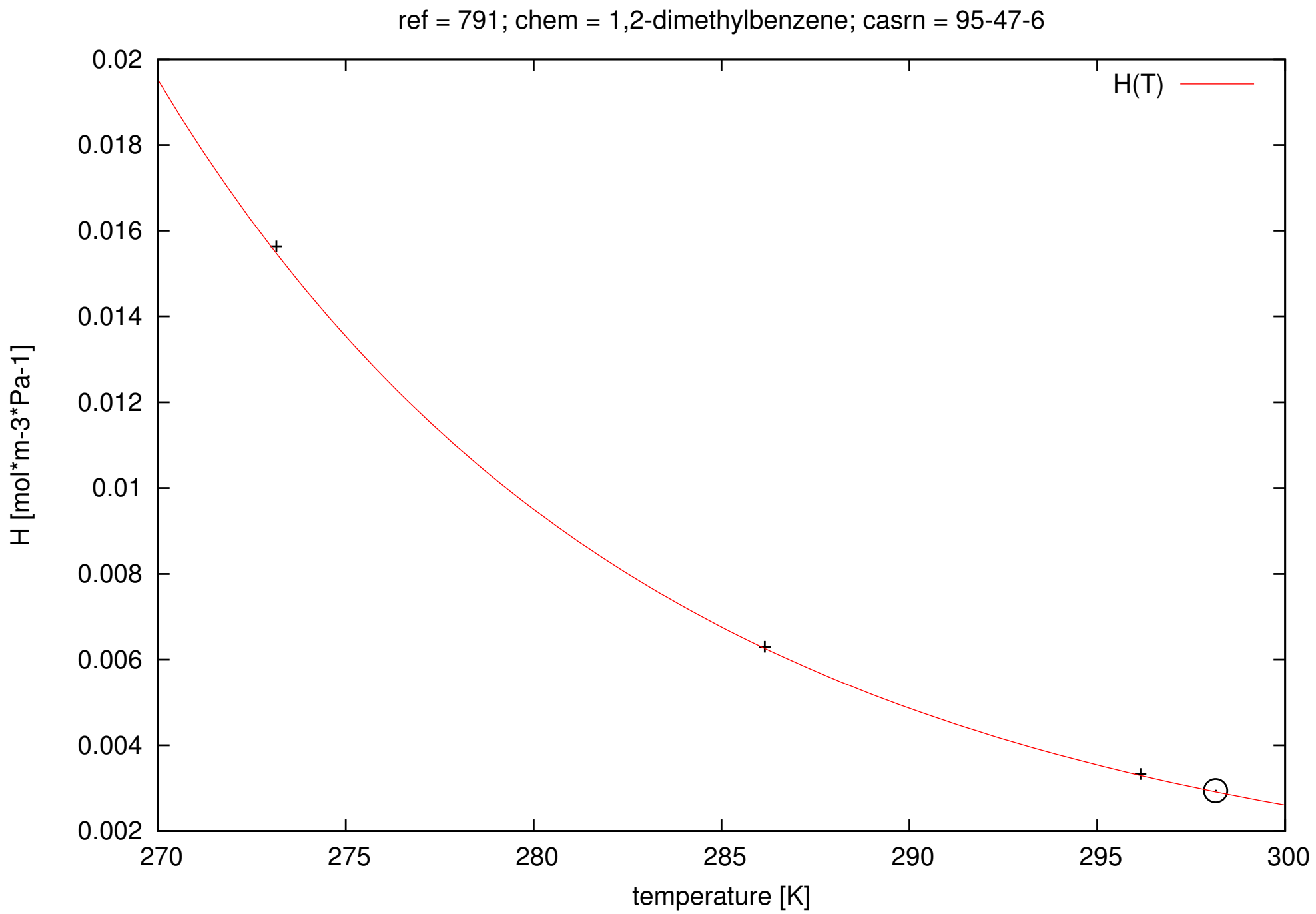

ref = 764; chem = tetrafluoromethane; casrn = 75-73-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
3.5e-06
3e-06
2.5e-06
2e-06
1.5e-06
1e-06
270
280
290
300
310
320

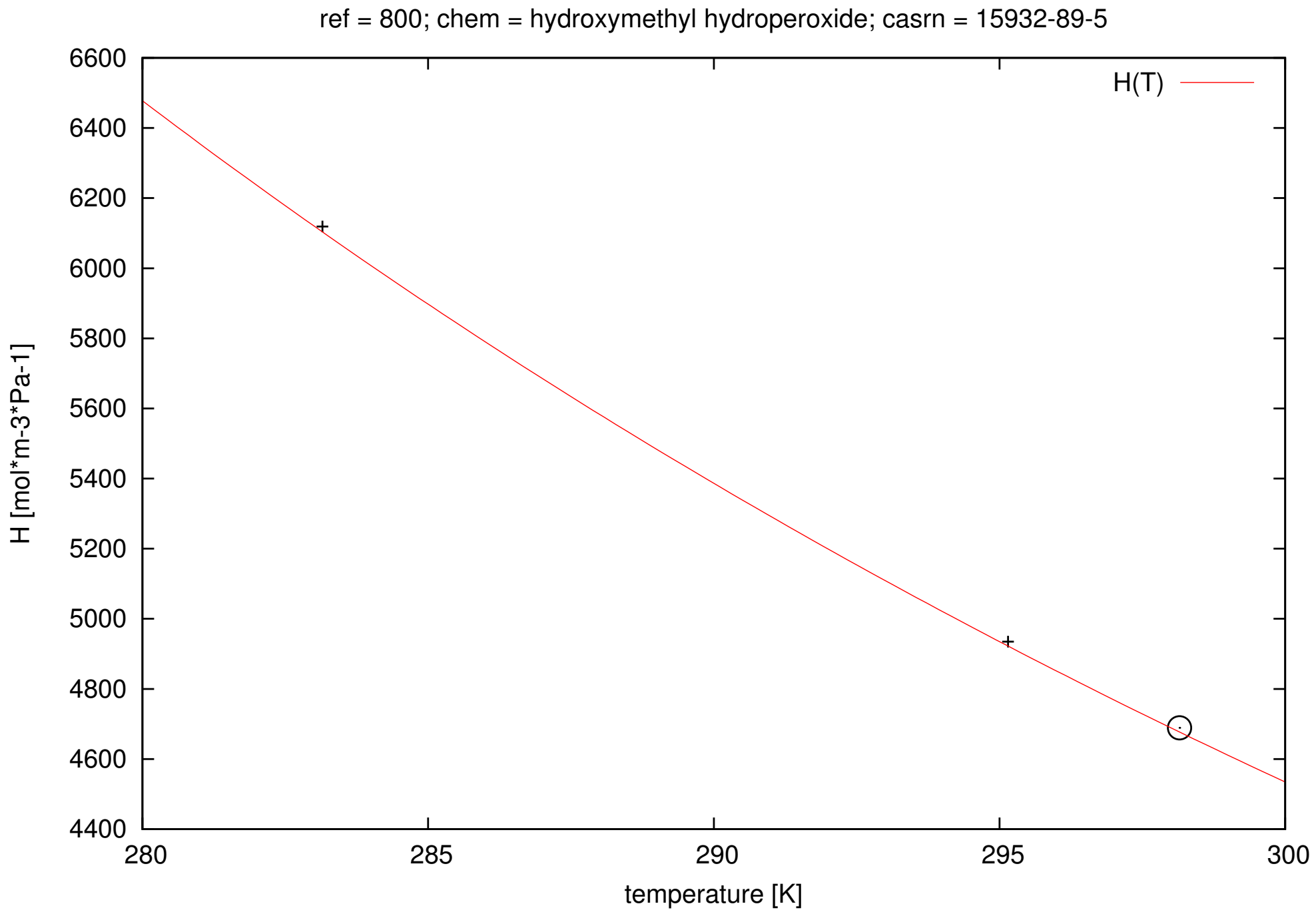

ref = 791; chem = 1,4-dimethylbenzene; casrn = 106-42-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
270
275
280
285
290
295
300

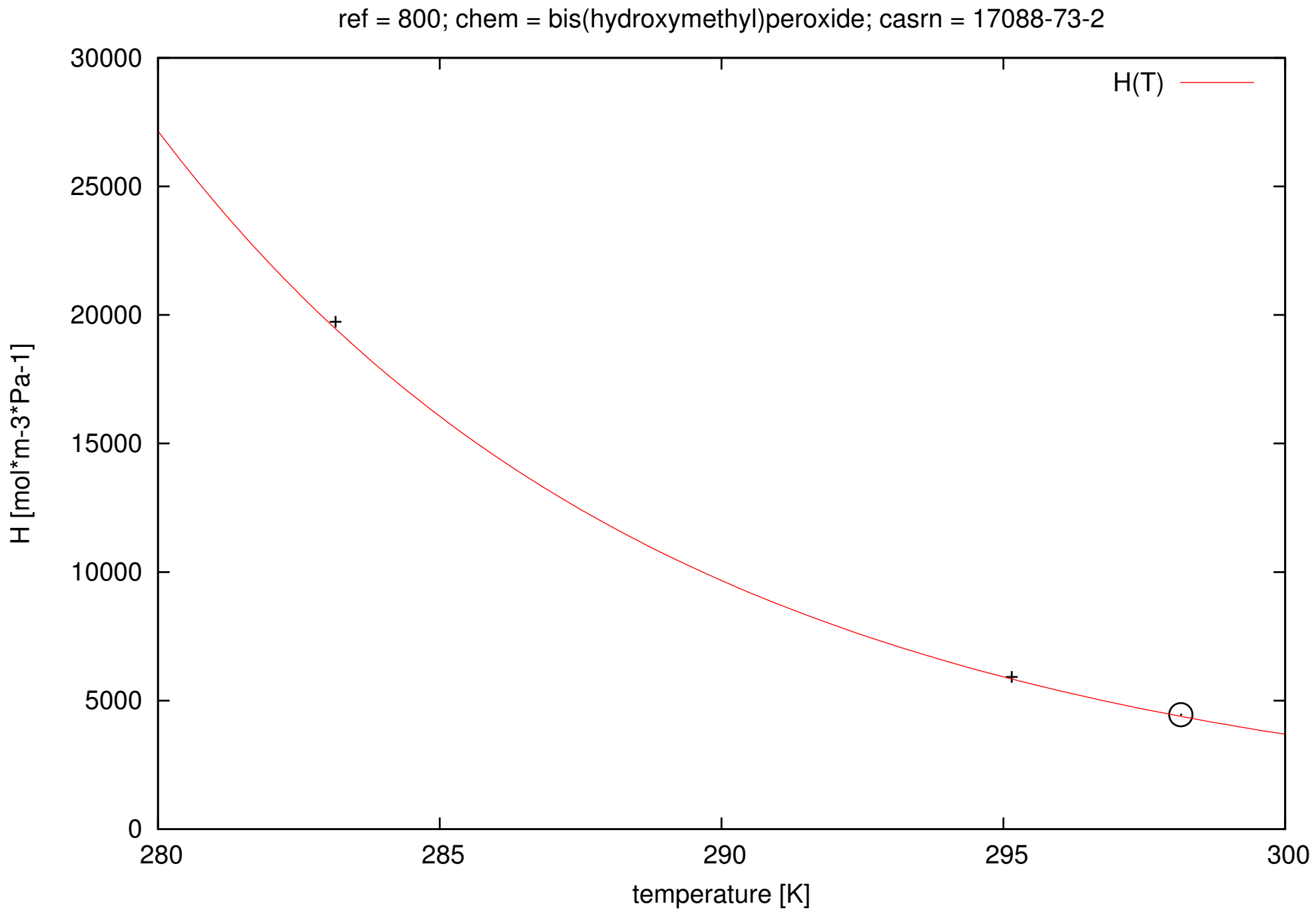

ref = 791; chem = benzene-d6; casrn = 1076-43-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
270
275
280
285
290
295
300

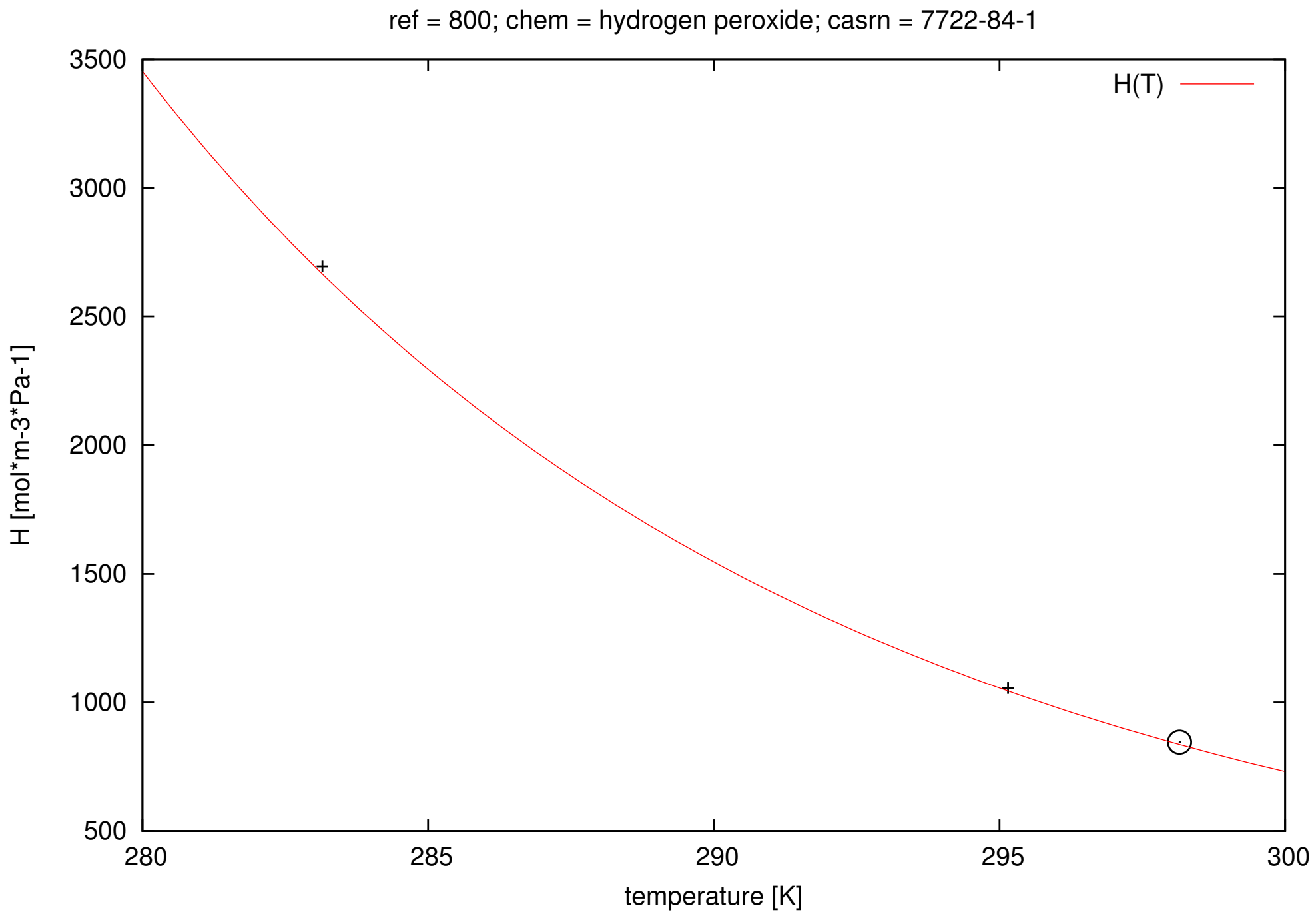

ref = 791; chem = methylbenzene; casrn = 108-88-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
270
275
280
285
290
295
300

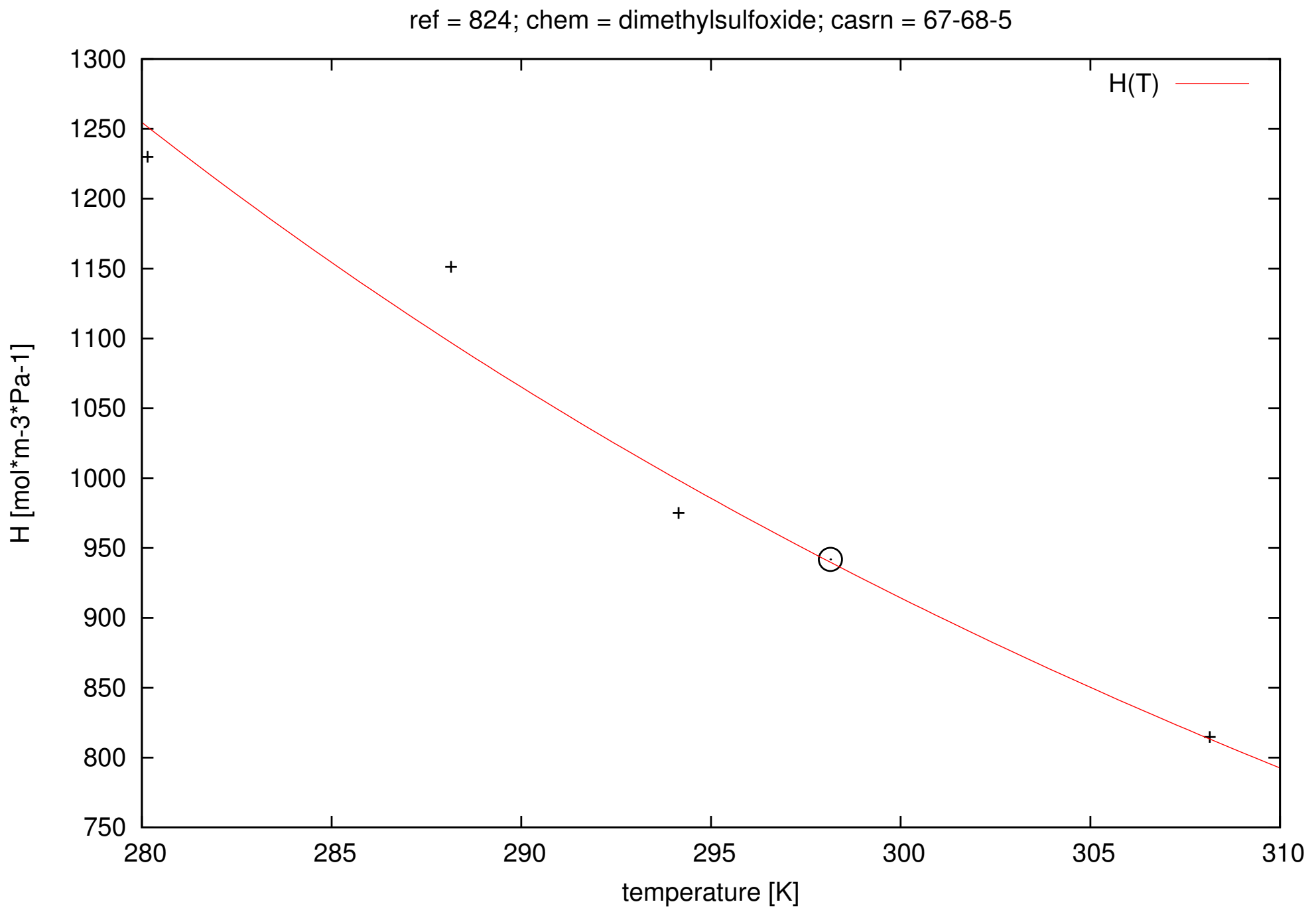

ref = 791; chem = benzene; casrn = 71-43-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
270
275
280
285
290
295
300

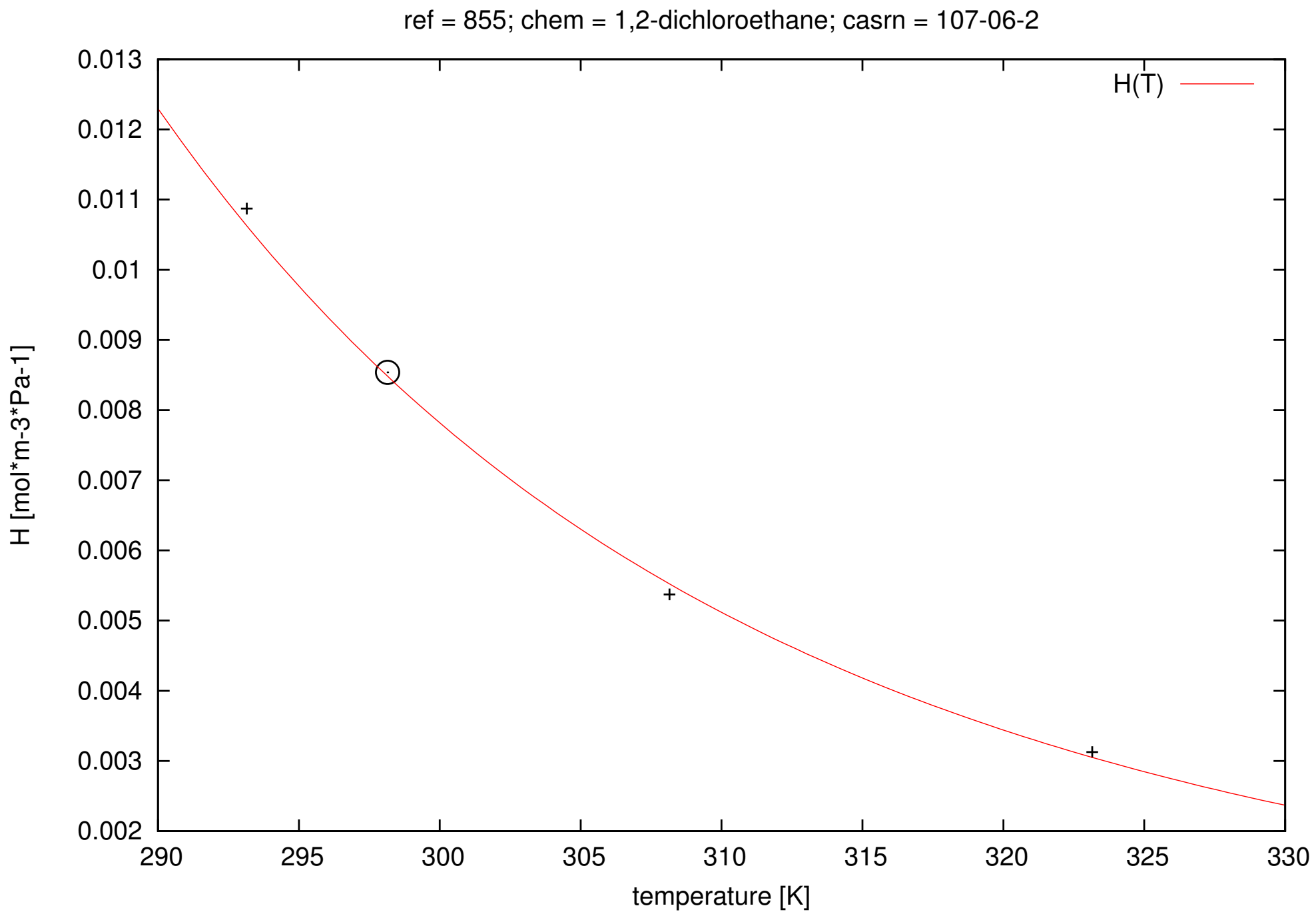

ref = 791; chem = 1,2-dimethylbenzene; casrn = 95-47-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
270
275
280
285
290
295
300

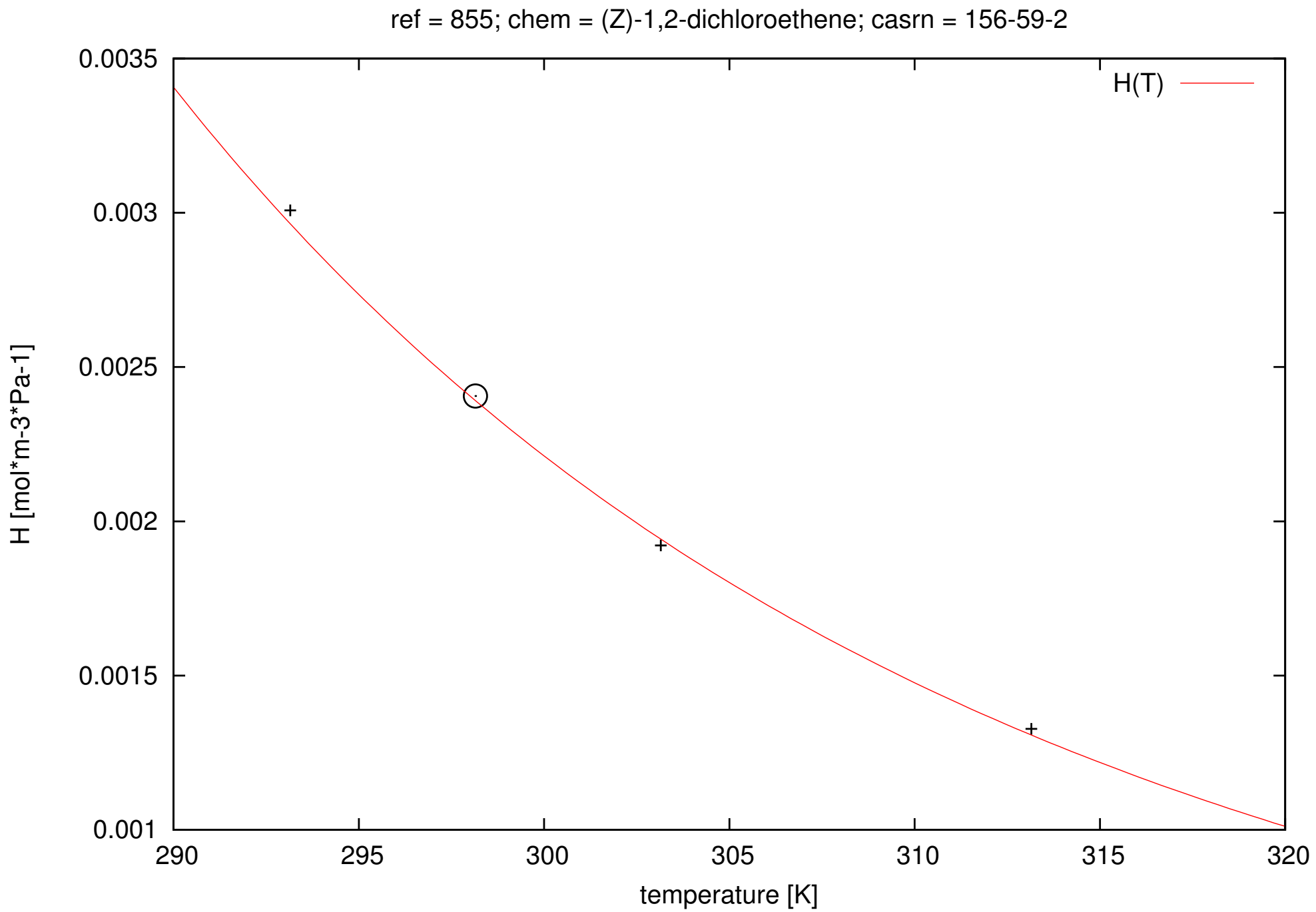

ref = 800; chem = hydroxymethyl hydroperoxide; casrn = 15932-89-5
H(T)
H [mol*m-3*Pa-1]
temperature [K]
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400
280
285
290
295
300

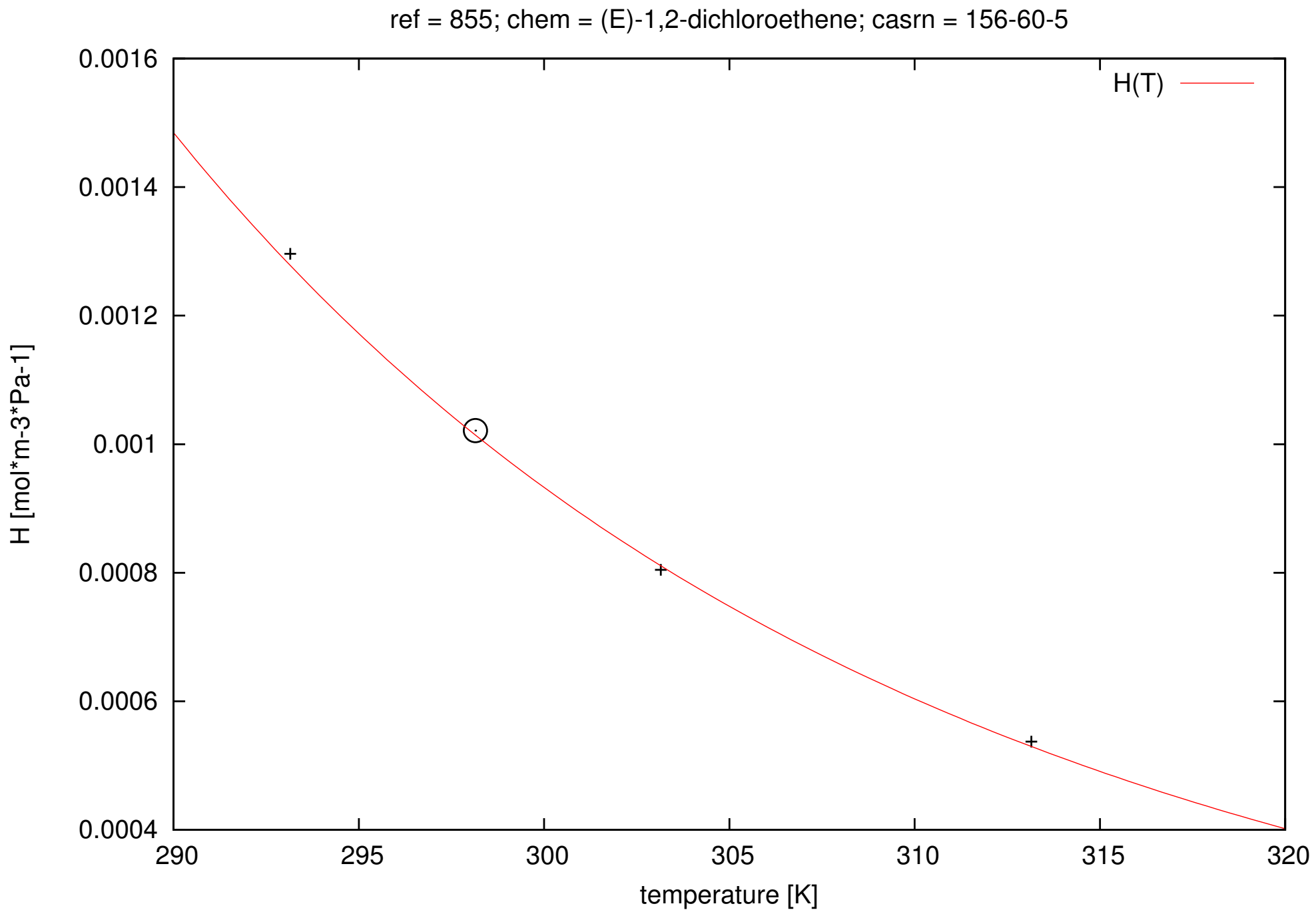

ref = 800; chem = bis(hydroxymethyl)peroxide; casrn = 17088-73-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
30000
25000
20000
15000
10000
5000
0
280
285
290
295
300

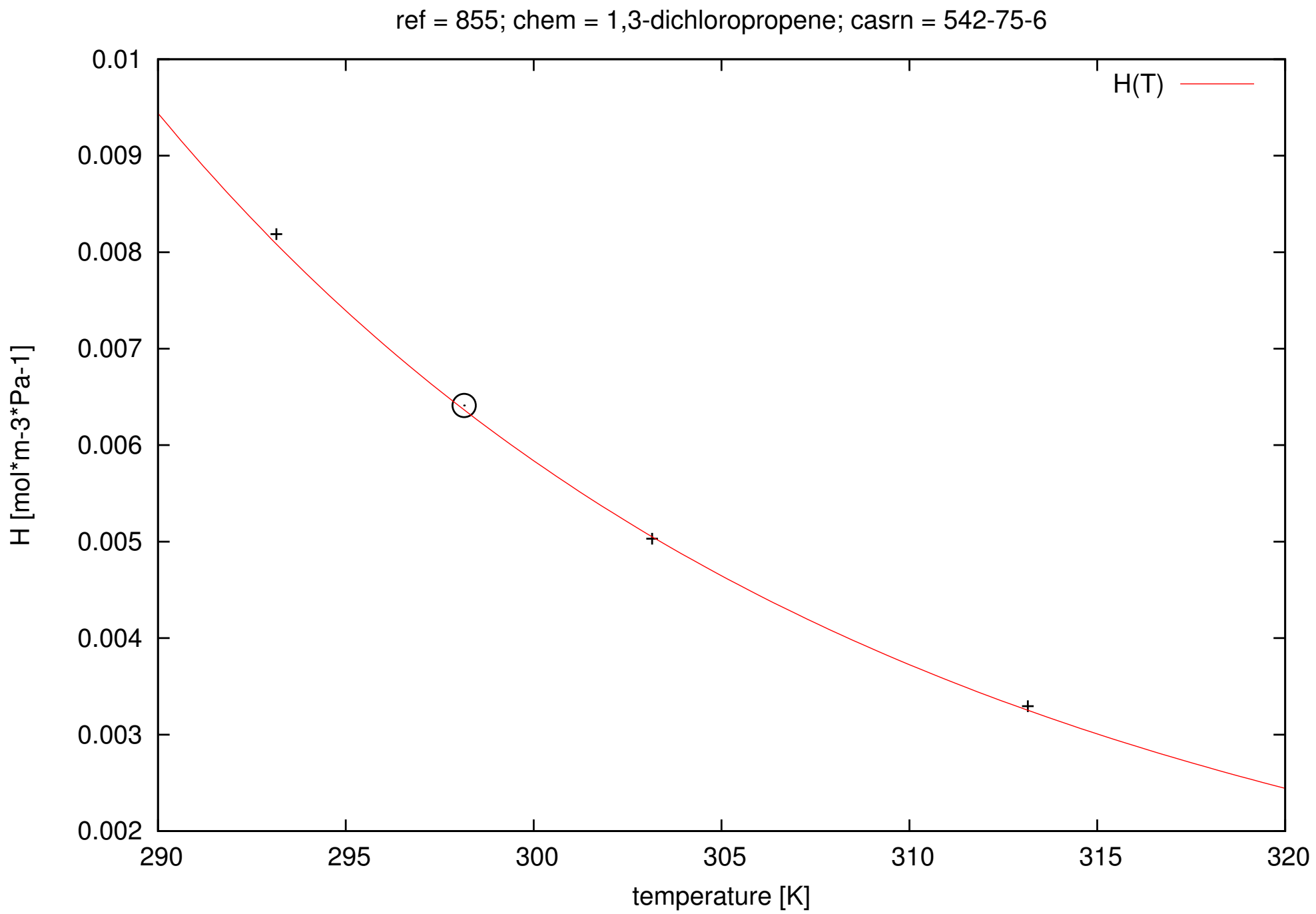

ref = 800; chem = hydrogen peroxide; casrn = 7722-84-1
H(T)
H [mol*m-3*Pa-1]
temperature [K]
3500
3000
2500
2000
1500
1000
500
280
285
290
295
300

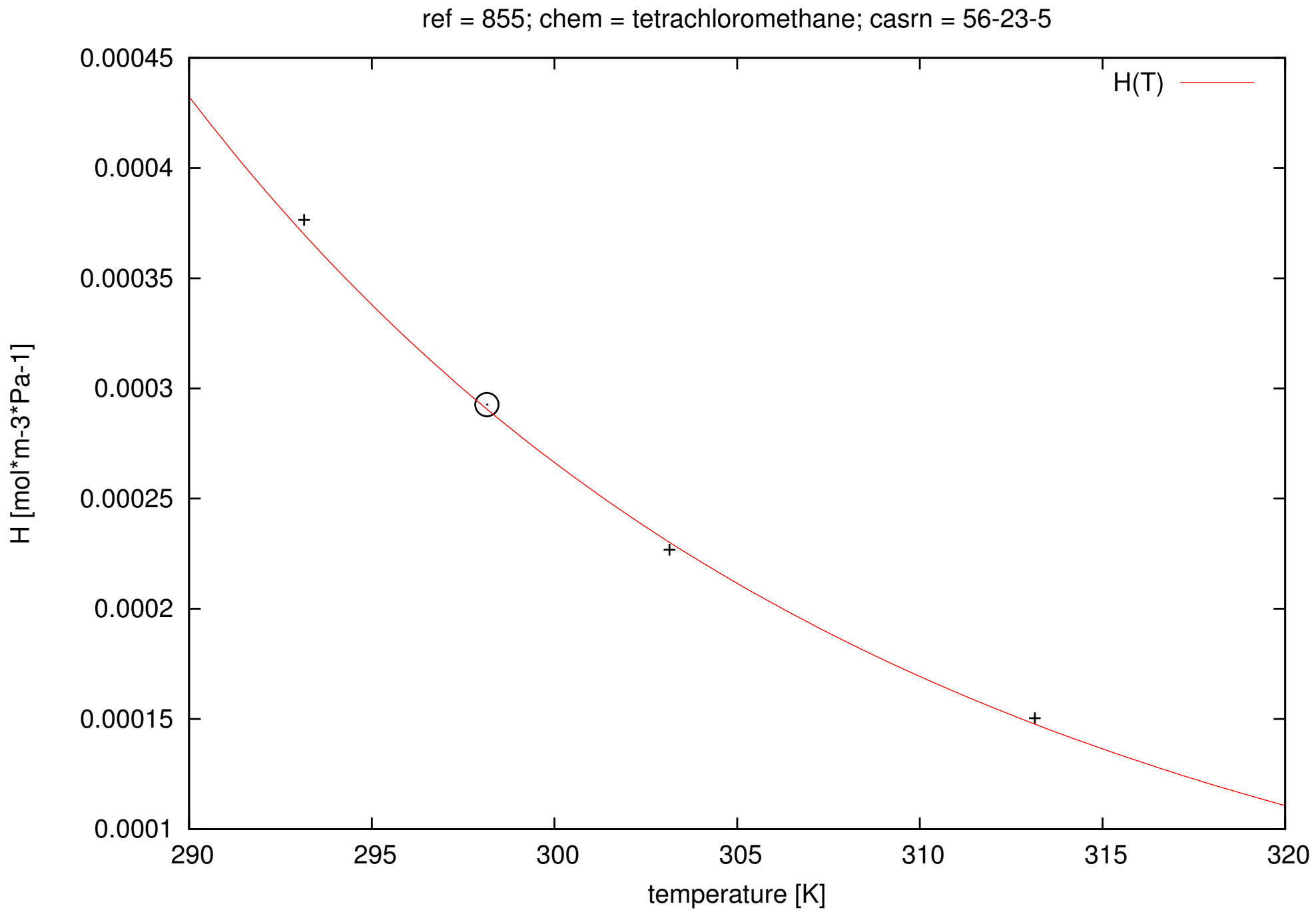

ref = 824; chem = dimethylsulfoxide; casrn = 67-68-5
H(T)
H [mol*m-3*Pa-1]
temperature [K]
1300
1250
1200
1150
1100
1050
1000
950
900
850
800
750
280
285
290
295
300
305
310

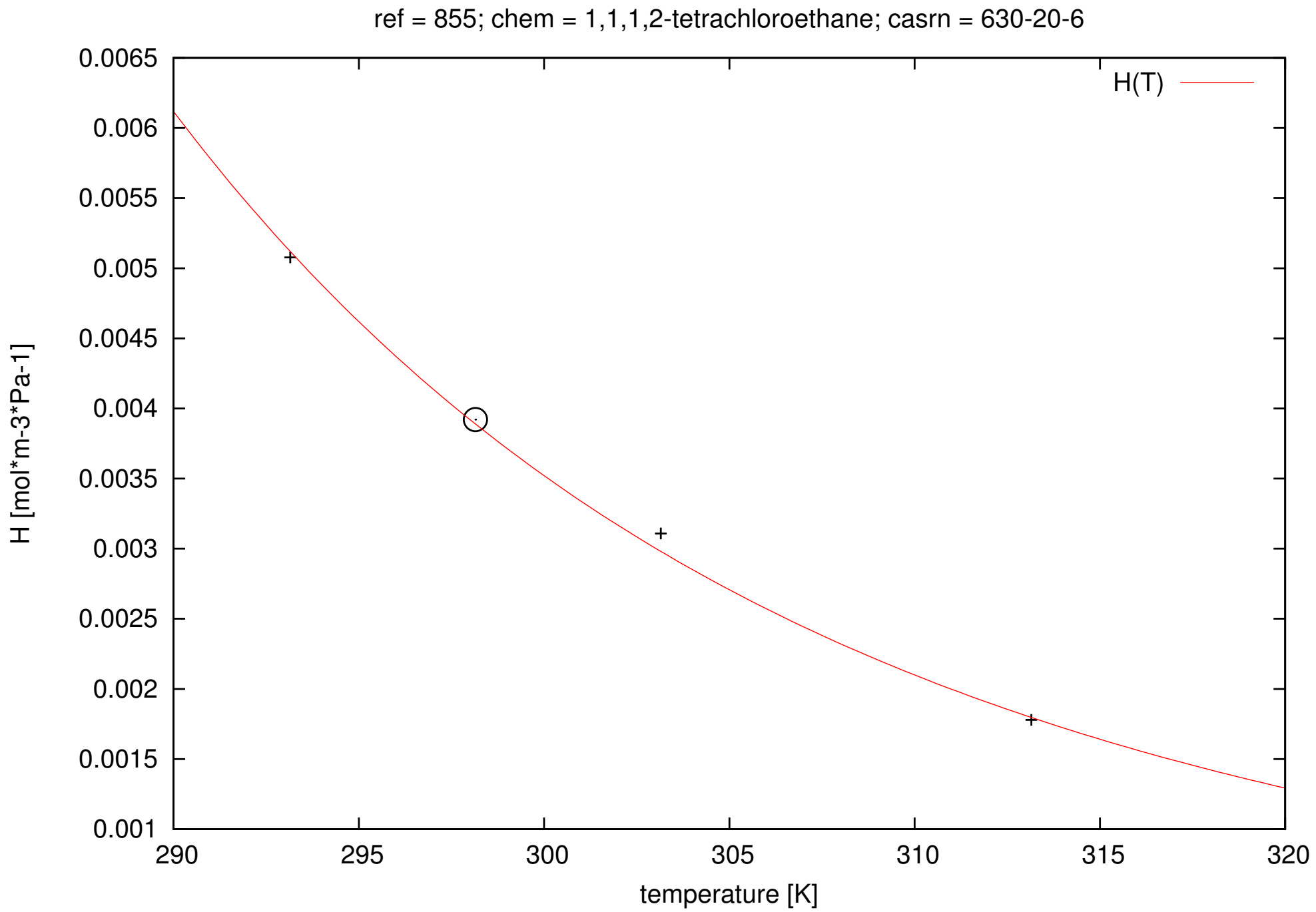

ref = 855; chem = 1,2-dichloroethane; casrn = 107-06-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
290
295
300
305
310
315
320
325
330

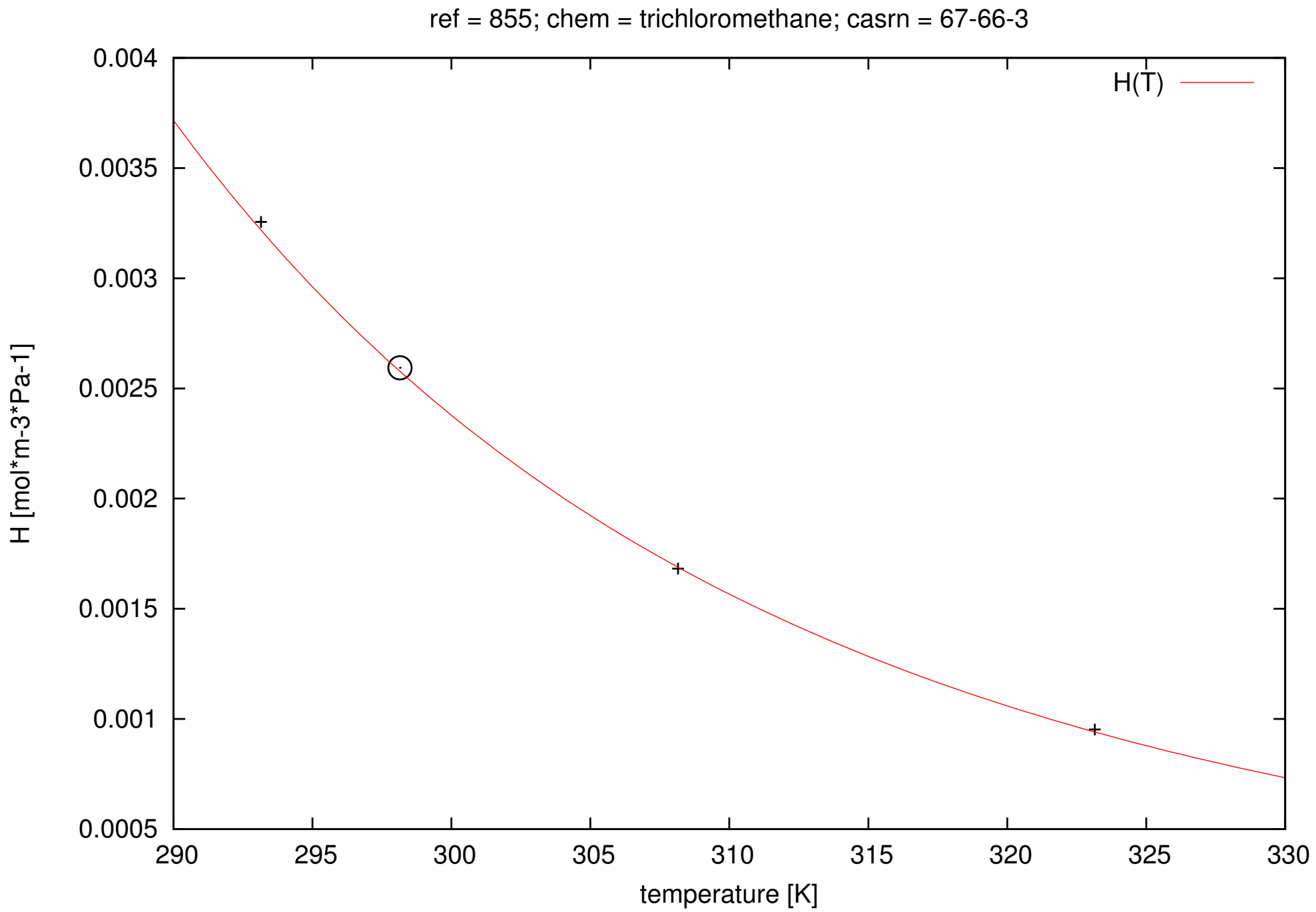

ref = 855; chem = (Z)-1,2-dichloroethene; casrn = 156-59-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0035
0.003
0.0025
0.002
0.0015
0.001
290
295
300
305
310
315
320

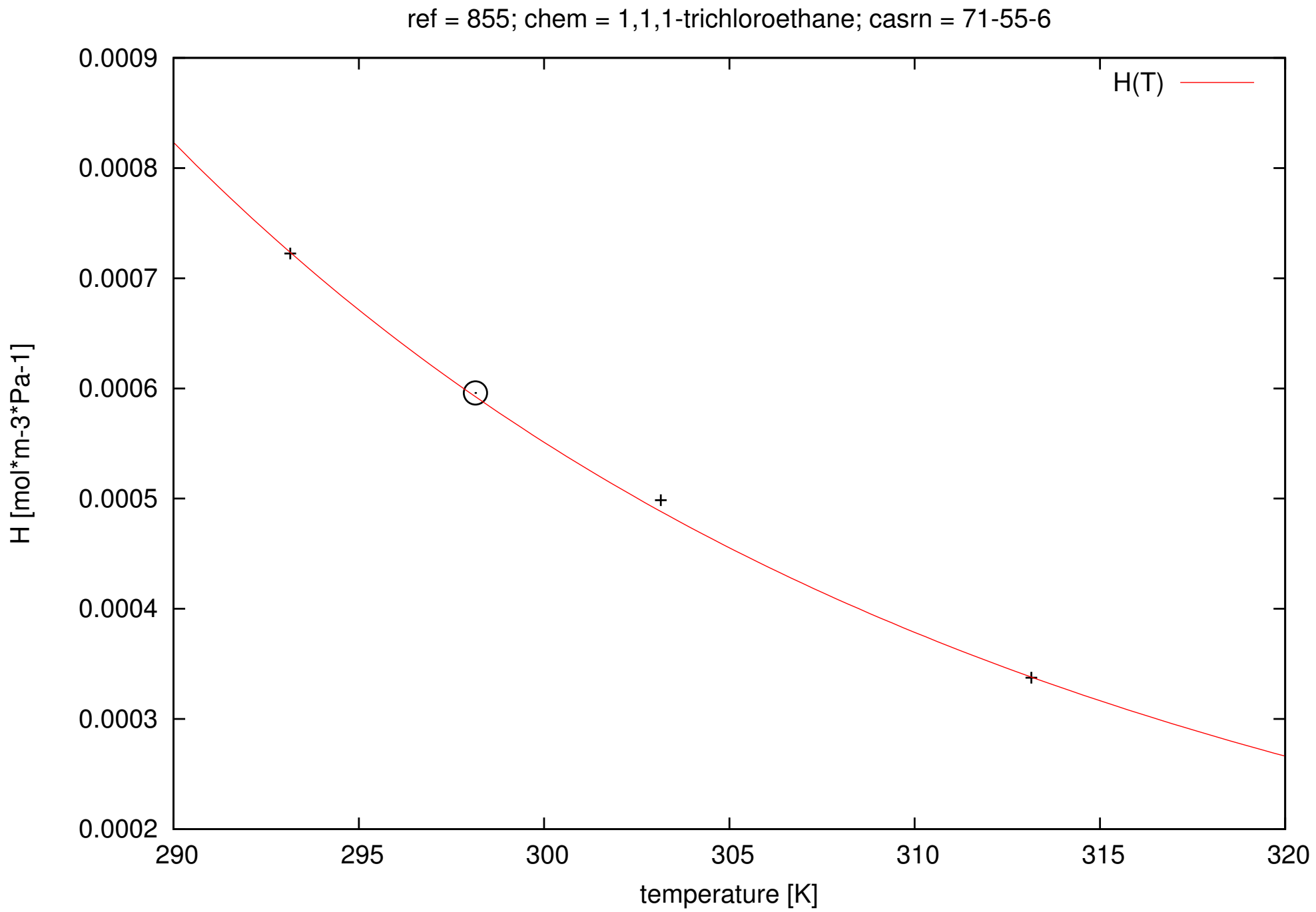

ref = 855; chem = (E)-1,2-dichloroethene; casrn = 156-60-5
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
290
295
300
305
310
315
320

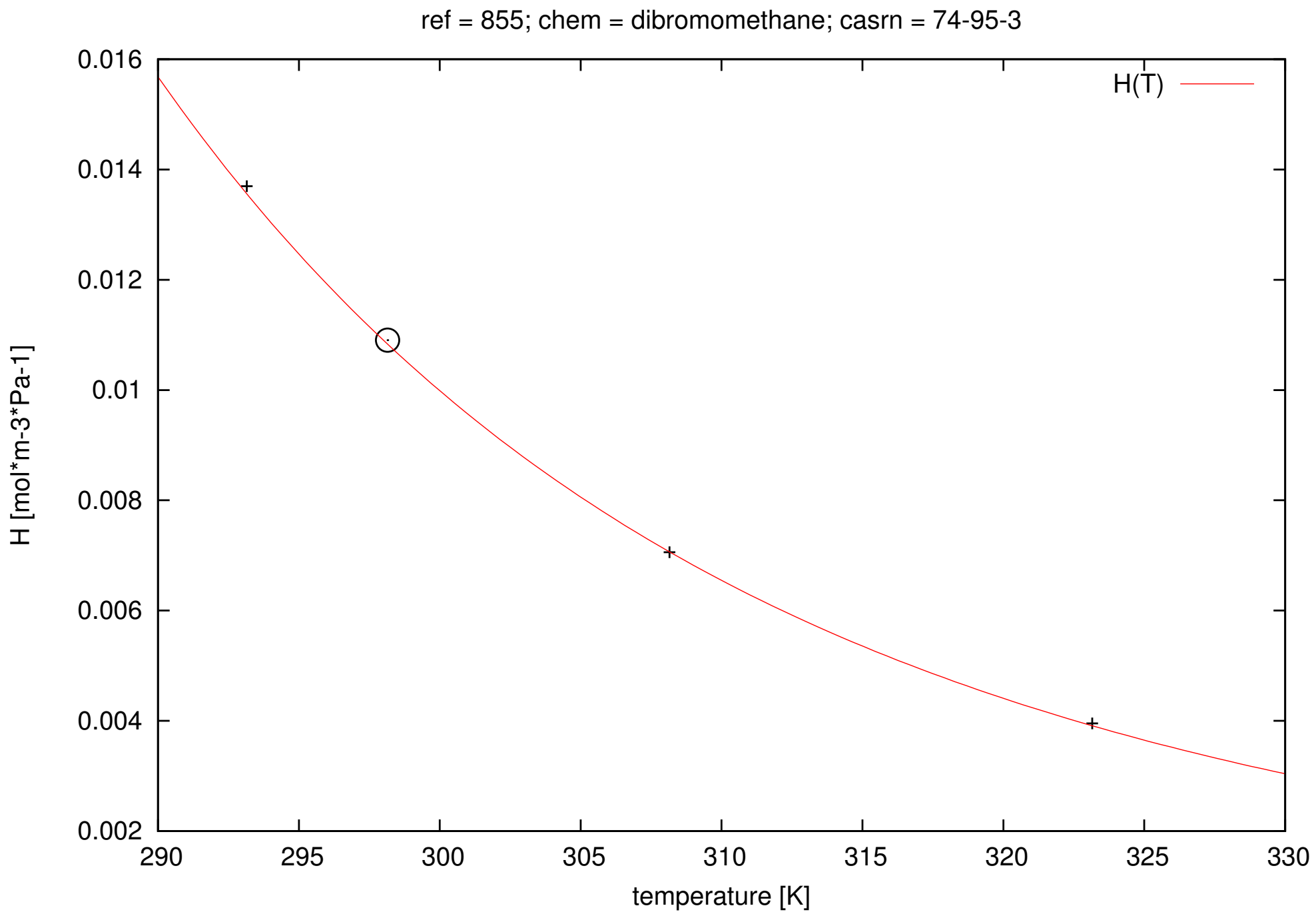

ref = 855; chem = 1,3-dichloropropene; casrn = 542-75-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
290
295
300
305
310
315
320

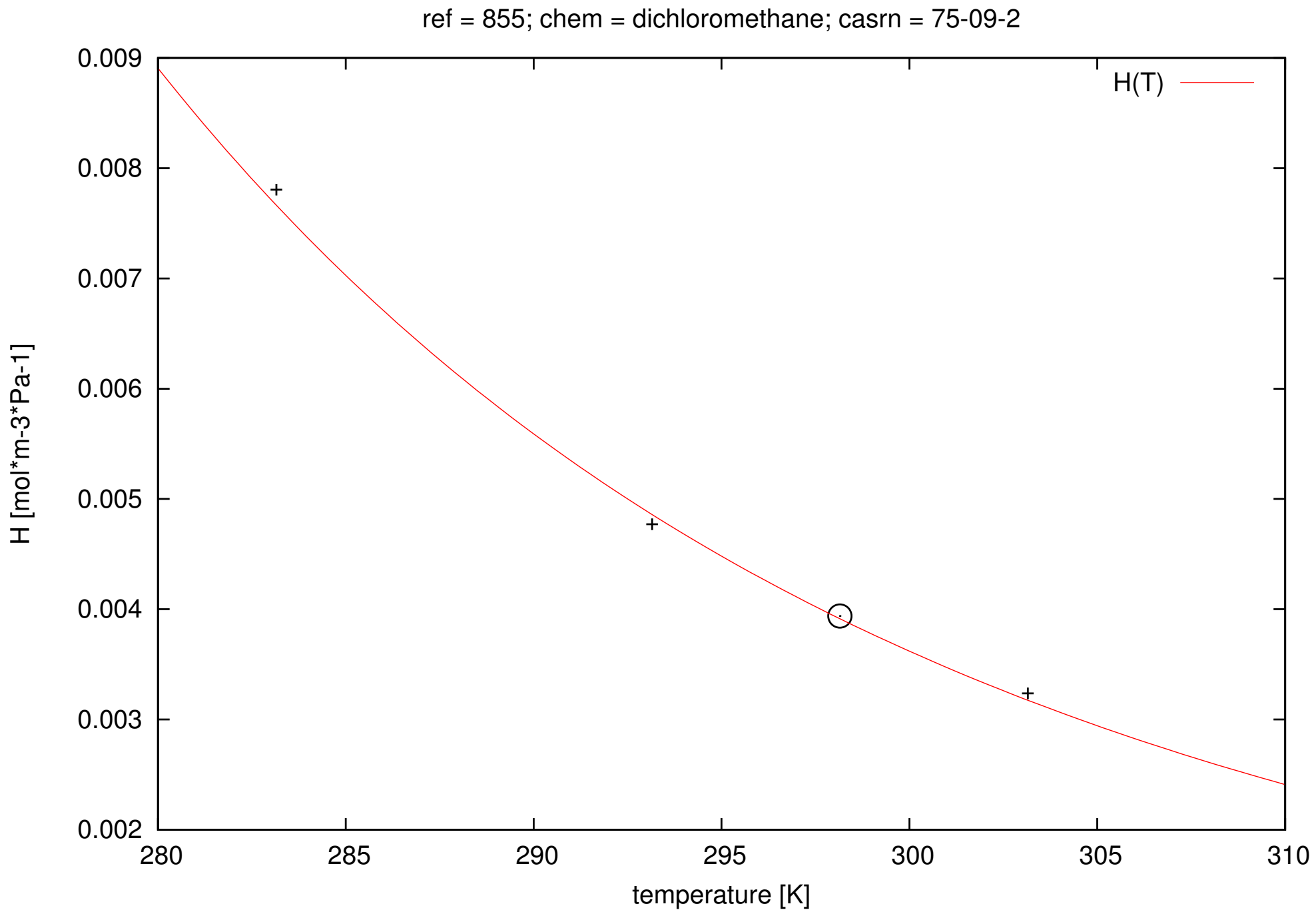

ref = 855; chem = tetrachloromethane; casrn = 56-23-5
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.00045
0.0004
0.00035
0.0003
0.00025
0.0002
0.00015
0.0001
290
295
300
305
310
315
320

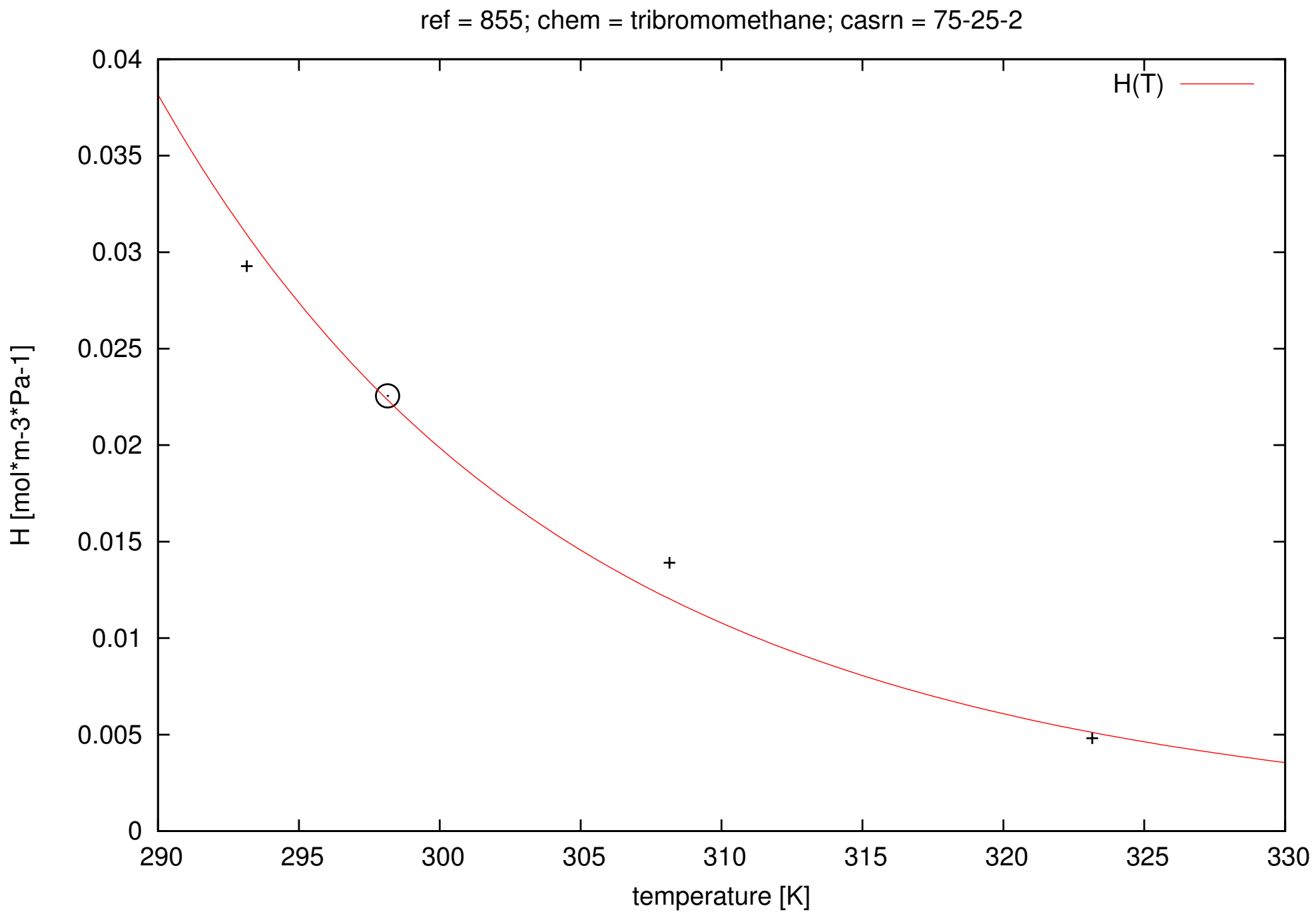

ref = 855; chem = 1,1,1,2-tetrachloroethane; casrn = 630-20-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
290
295
300
305
310
315
320

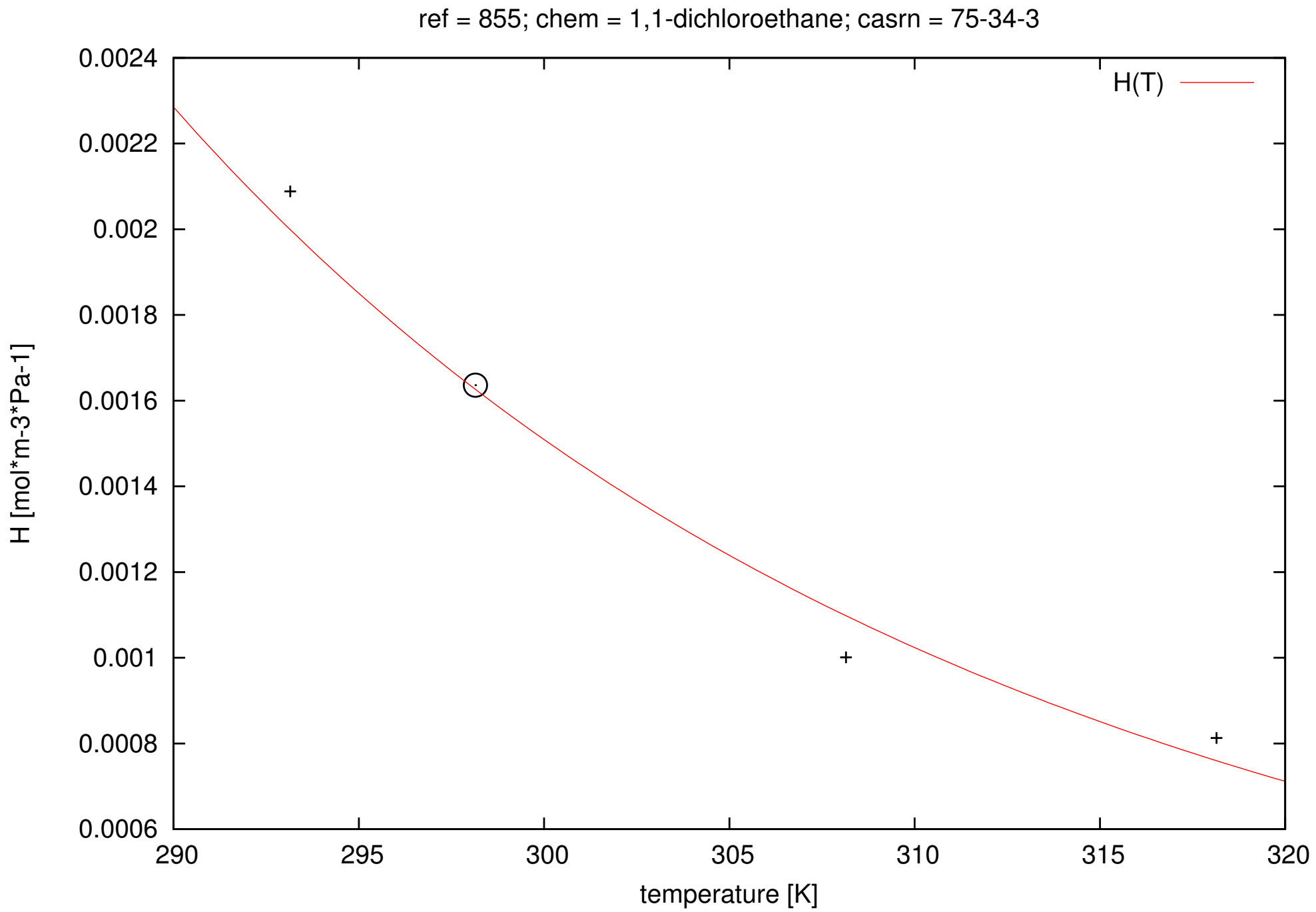

ref = 855; chem = trichloromethane; casrn = 67-66-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
290
295
300
305
310
315
320
325
330

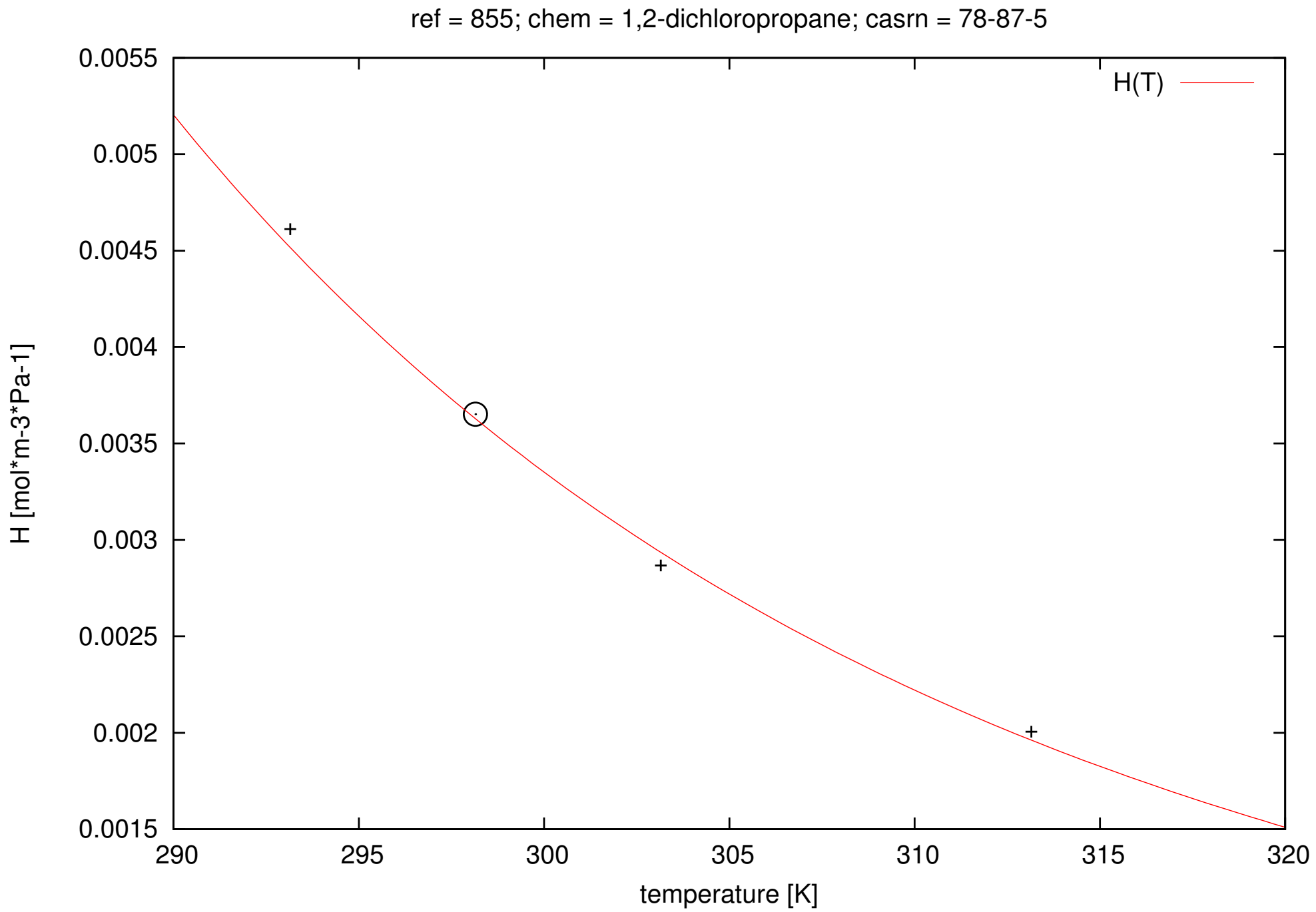

ref = 855; chem = 1,1,1-trichloroethane; casrn = 71-55-6
H(T)
H [mol*m-3*Pa-1]
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
290
295
300
305
310
315
320
temperature [K]

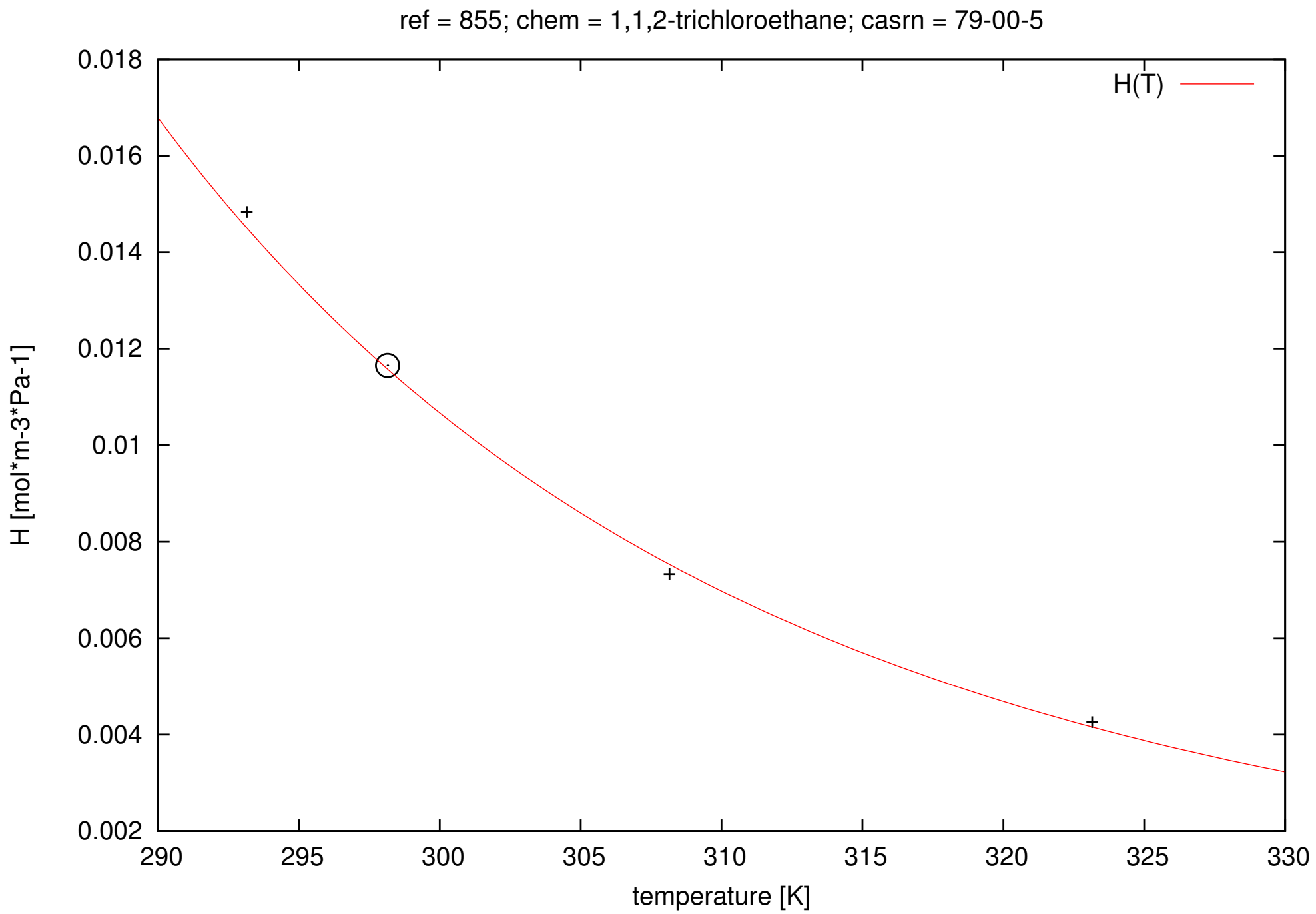

ref = 855; chem = dibromomethane; casrn = 74-95-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
290
295
300
305
310
315
320
325
330

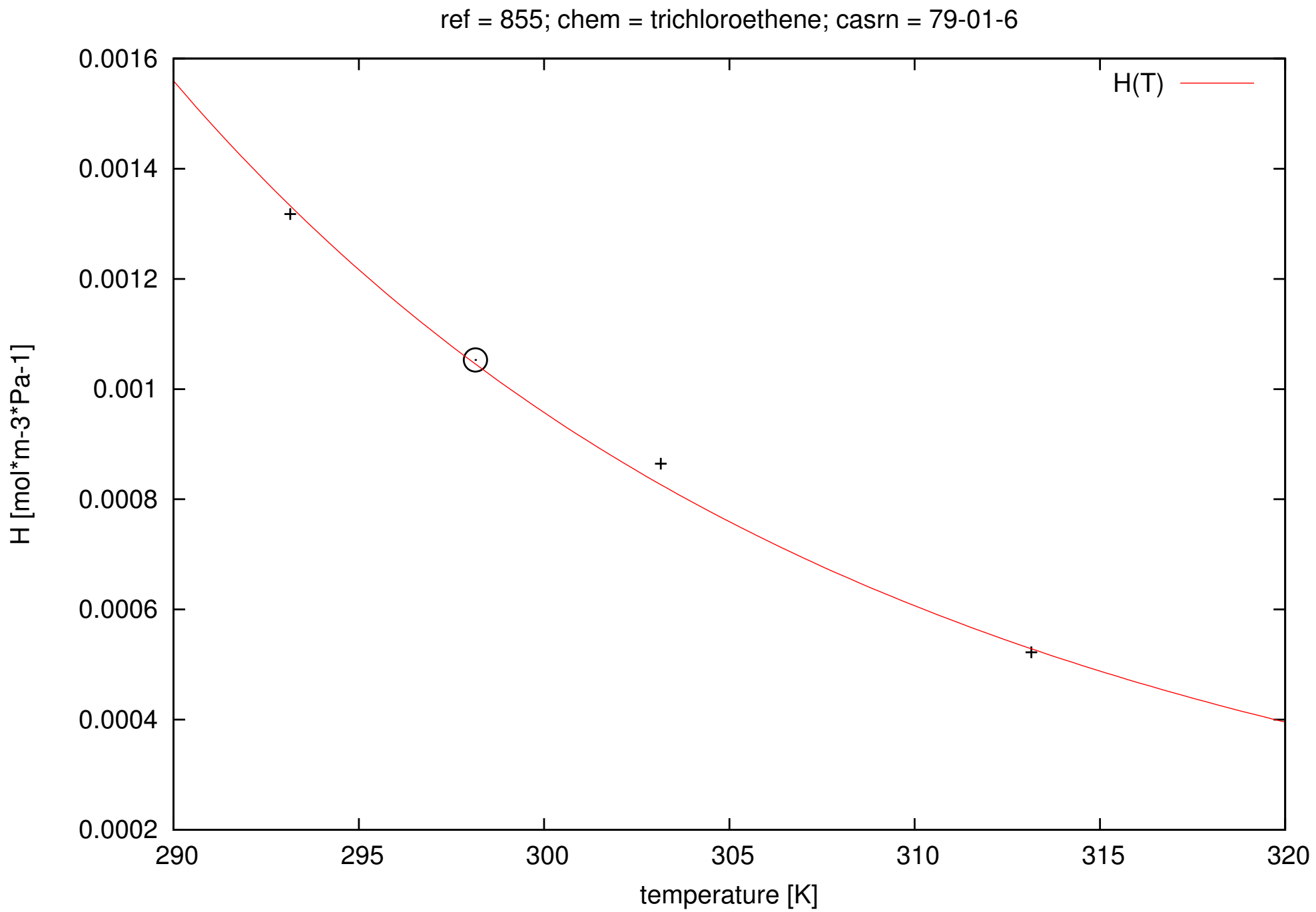

ref = 855; chem = dichloromethane; casrn = 75-09-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
280
285
290
295
300
305
310

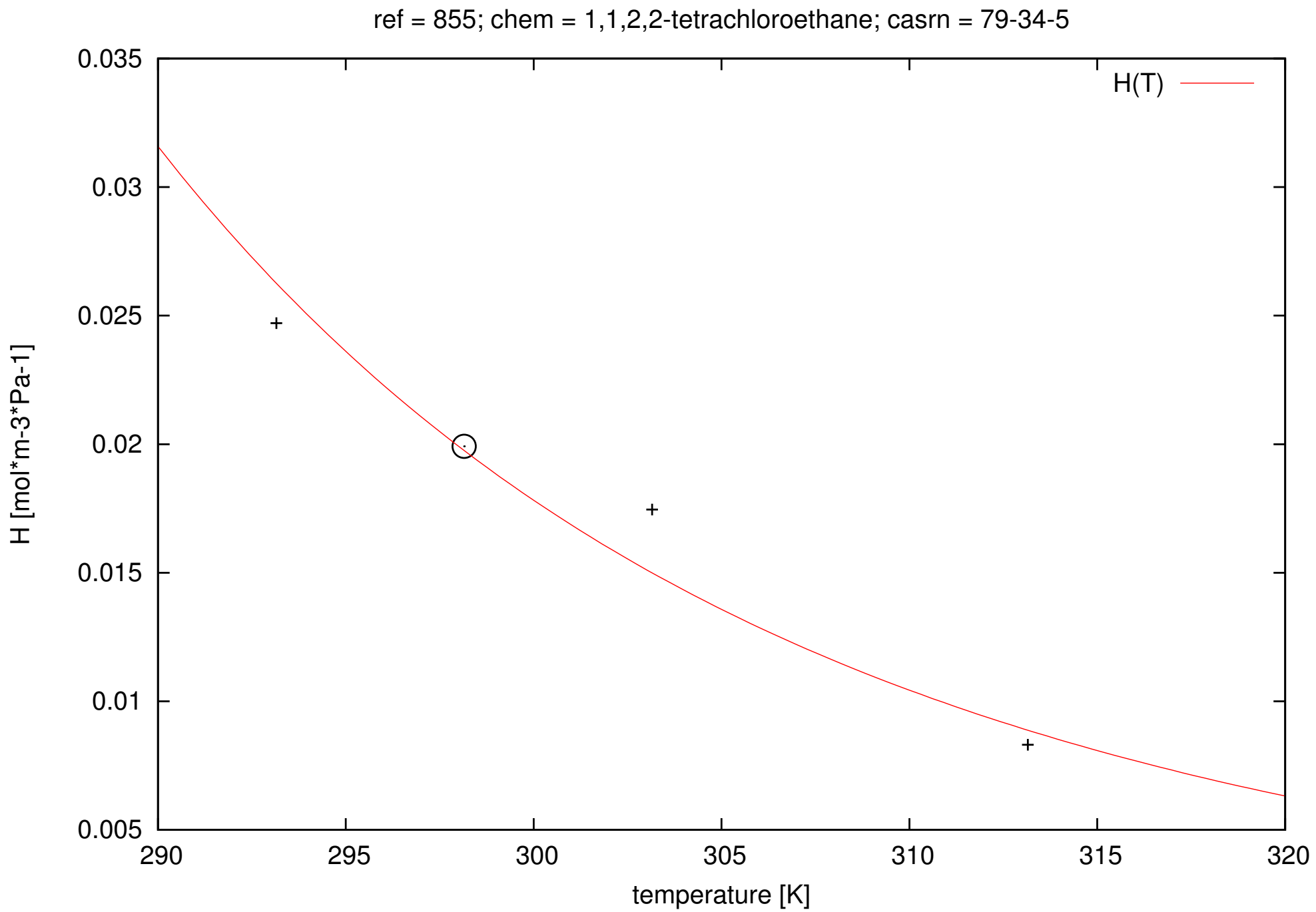

ref = 855; chem = tribromomethane; casrn = 75-25-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
290
295
300
305
310
315
320
325
330

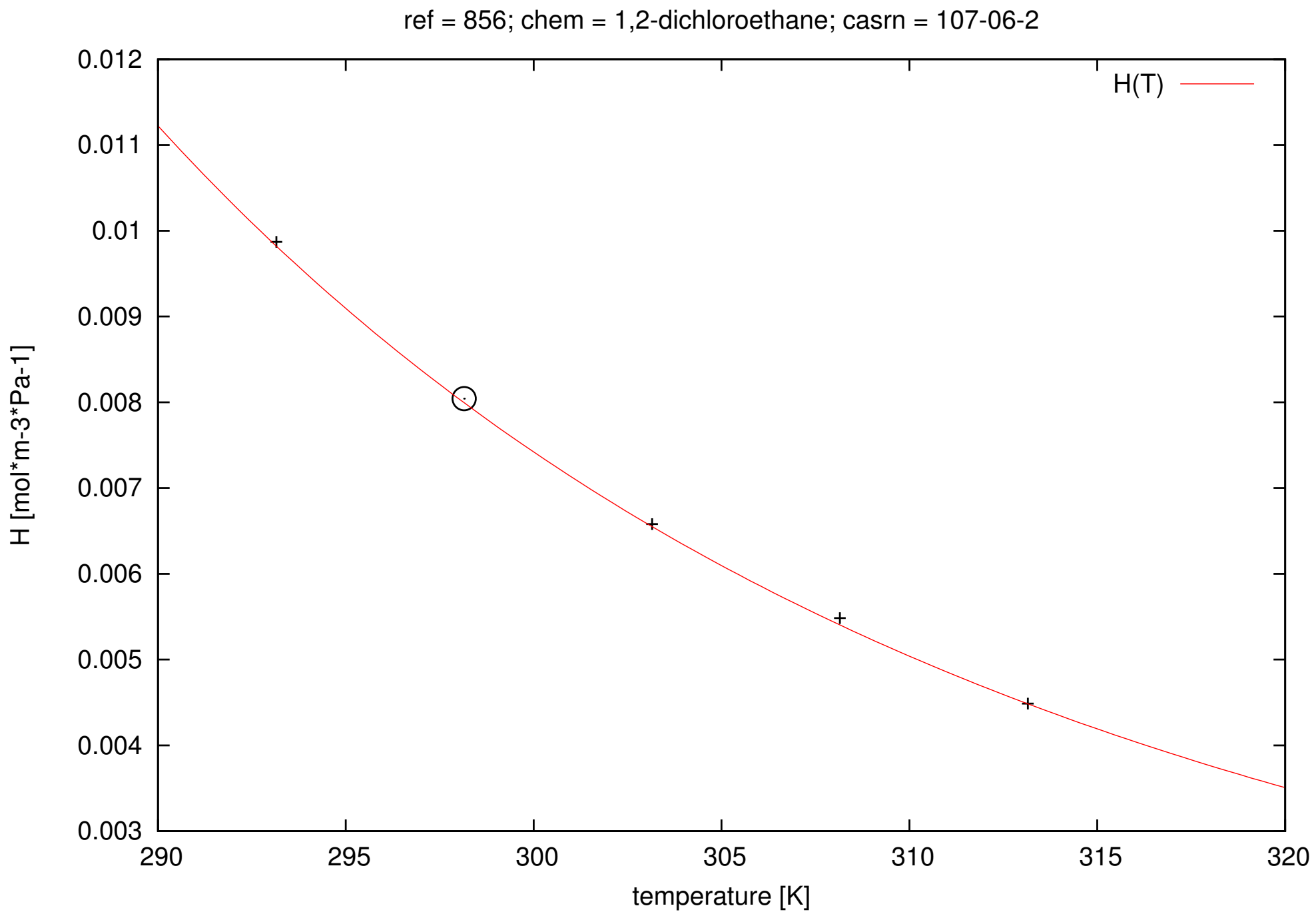

ref = 855; chem = 1,1-dichloroethane; casrn = 75-34-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
290
295
300
305
310
315
320

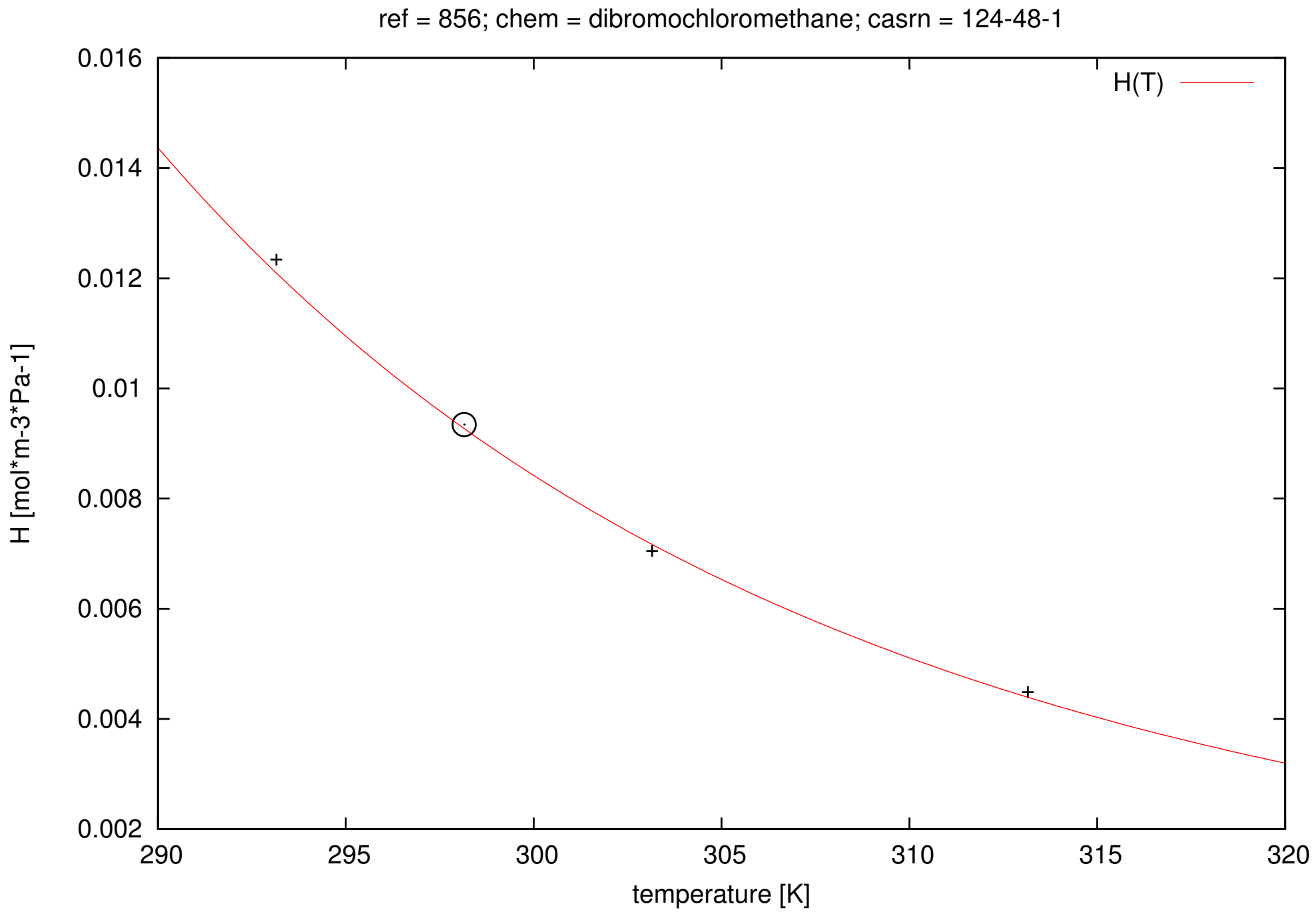

ref = 855; chem = 1,2-dichloropropane; casrn = 78-87-5
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
290
295
300
305
310
315
320

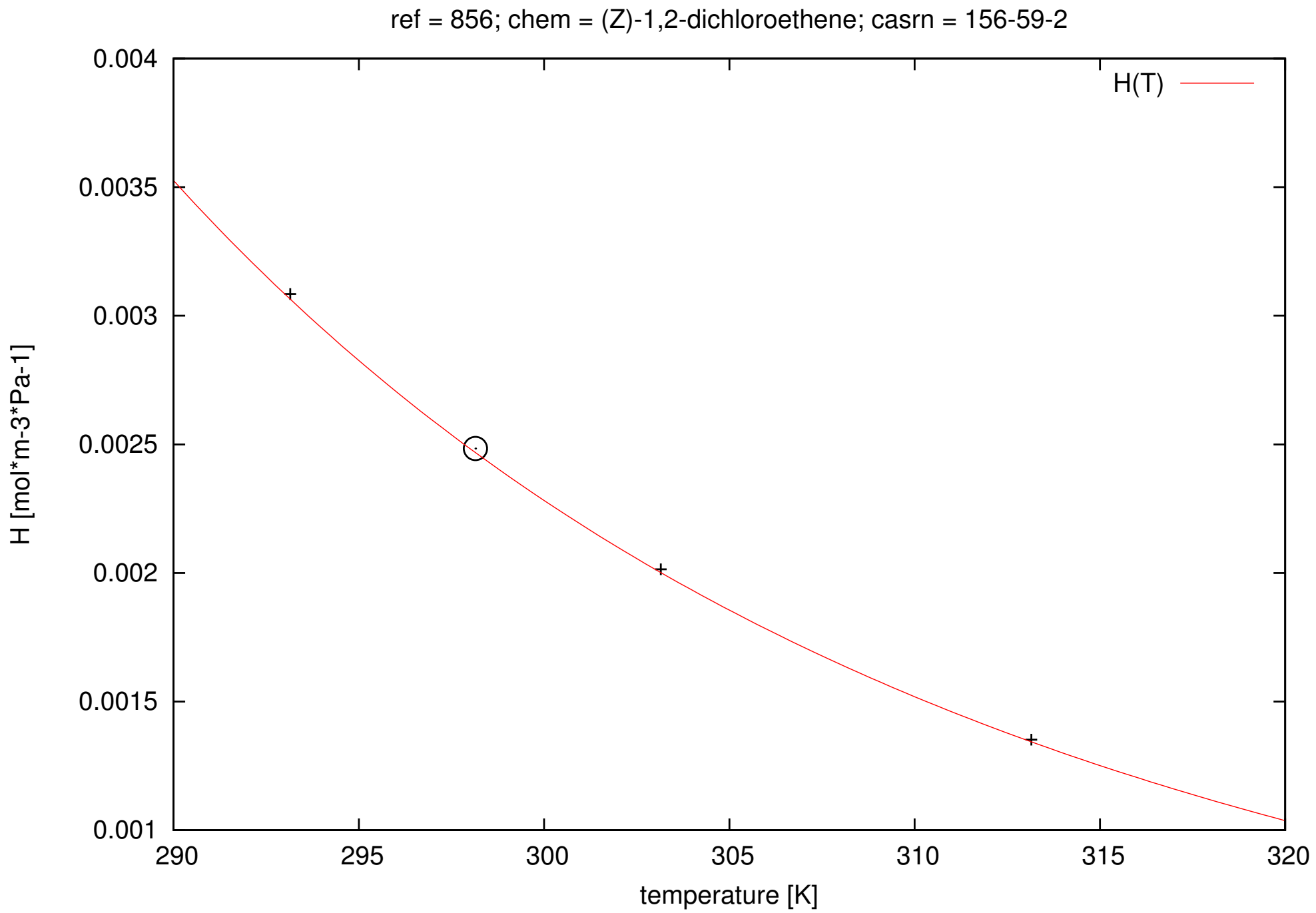

ref = 855; chem = 1,1,2-trichloroethane; casrn = 79-00-5
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
290
295
300
305
310
315
320
325
330

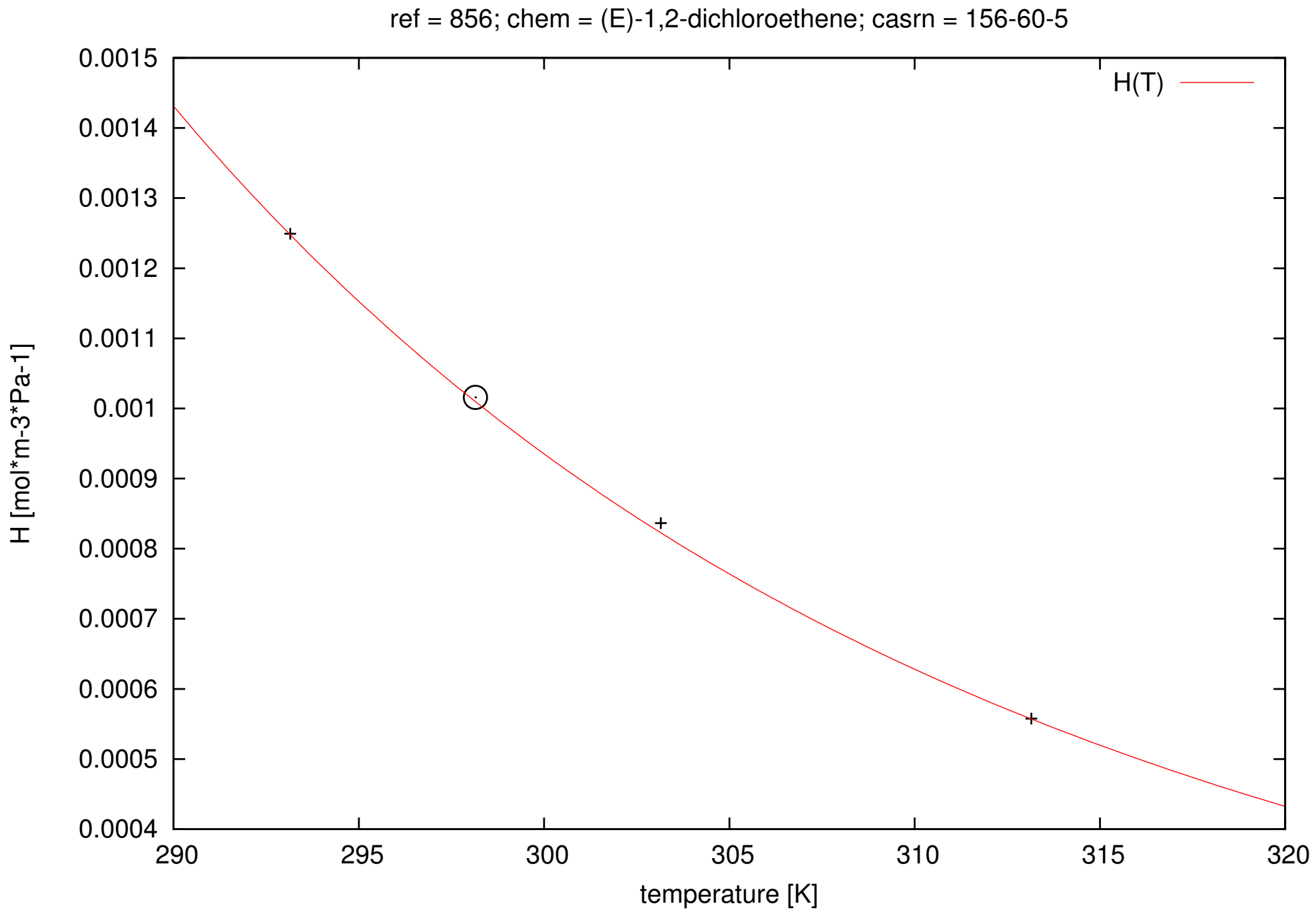

ref = 855; chem = trichloroethene; casrn = 79-01-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
290
295
300
305
310
315
320

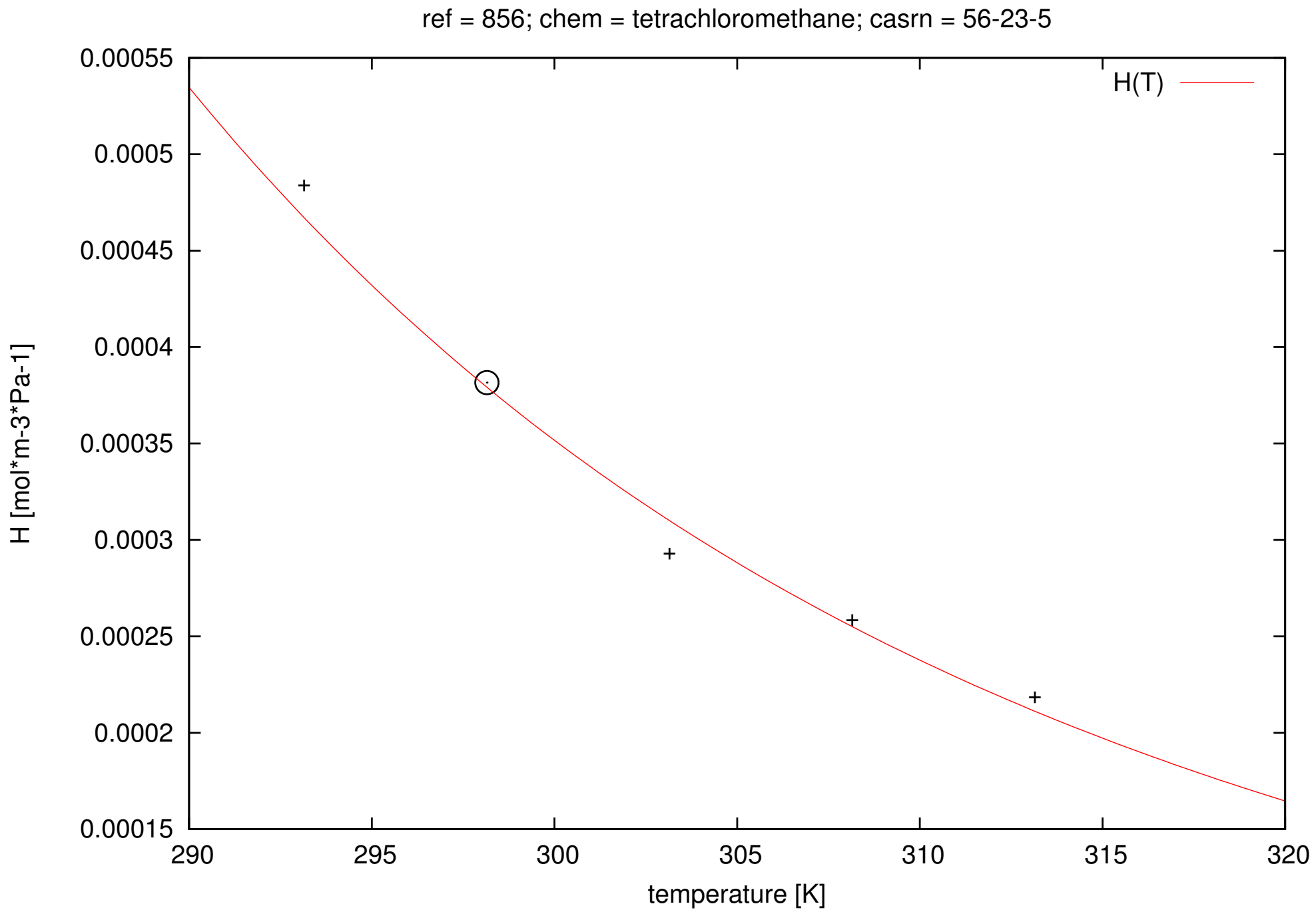

ref = 855; chem = 1,1,2,2-tetrachloroethane; casrn = 79-34-5
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.035
0.03
0.025
0.02
0.015
0.01
0.005
290
295
300
305
310
315
320

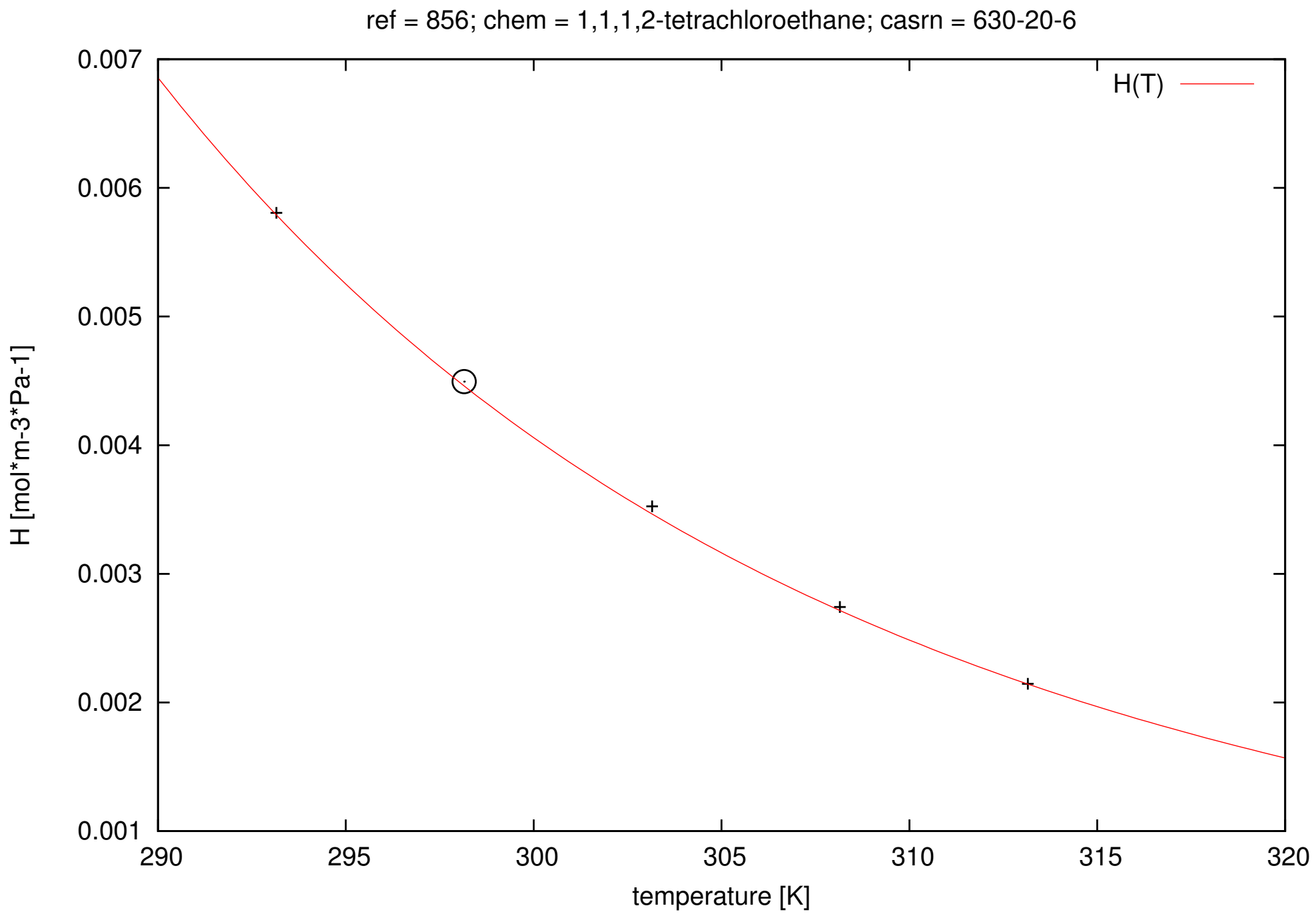

ref = 856; chem = 1,2-dichloroethane; casrn = 107-06-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
290
295
300
305
310
315
320

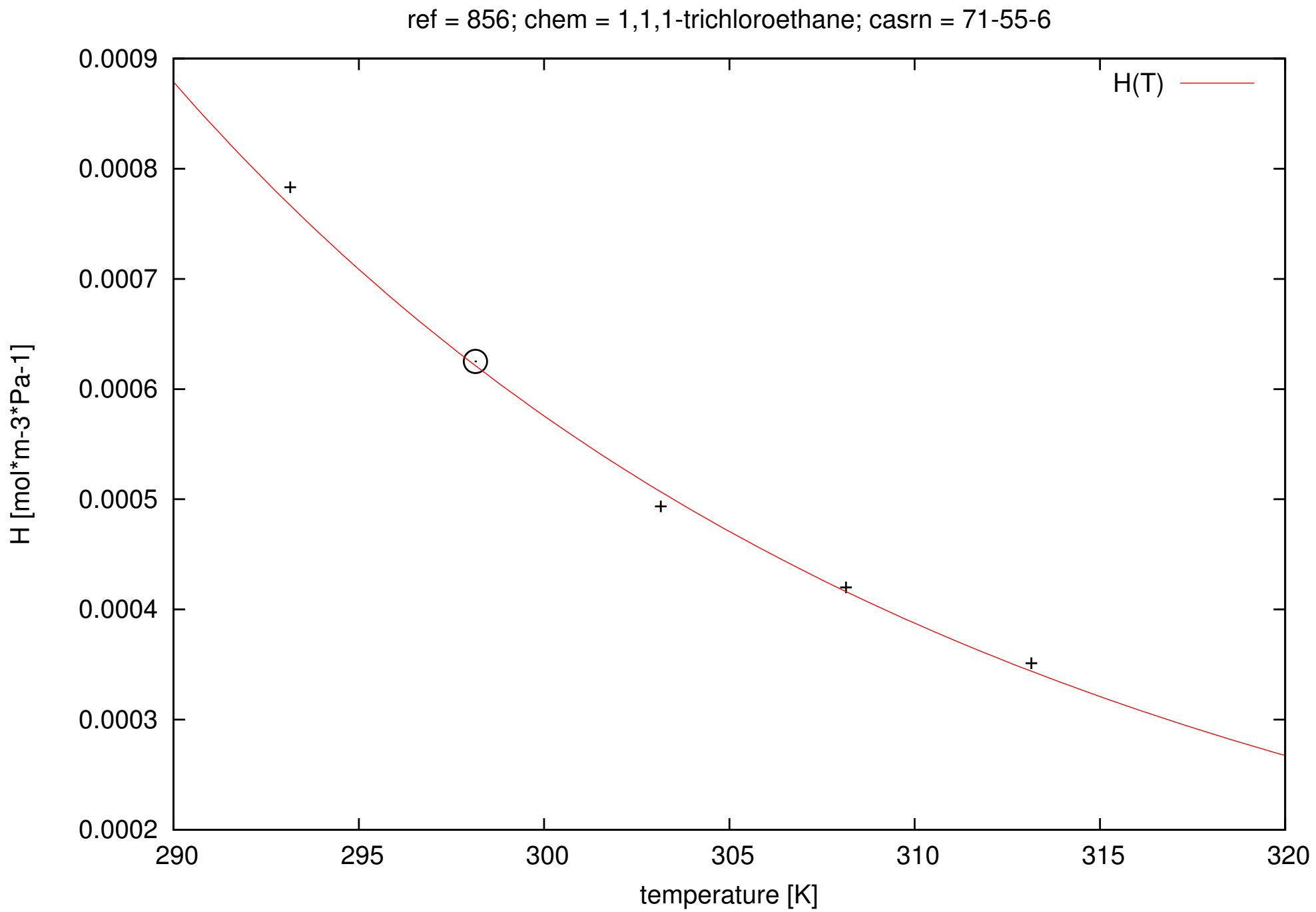

ref = 856; chem = dibromochloromethane; casrn = 124-48-1
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
290
295
300
305
310
315
320

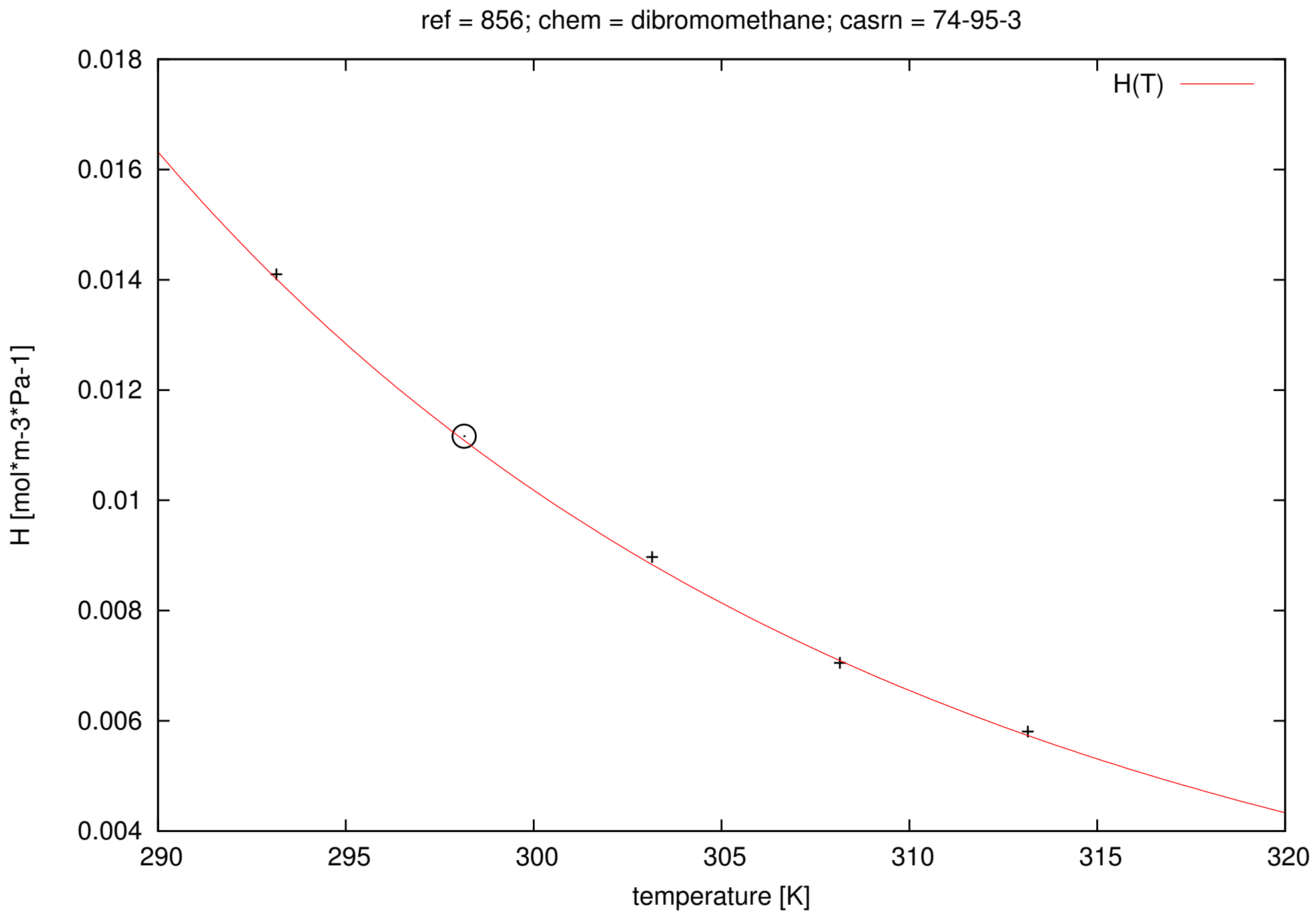

ref = 856; chem = (Z)-1,2-dichloroethene; casrn = 156-59-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
290
295
300
305
310
315
320

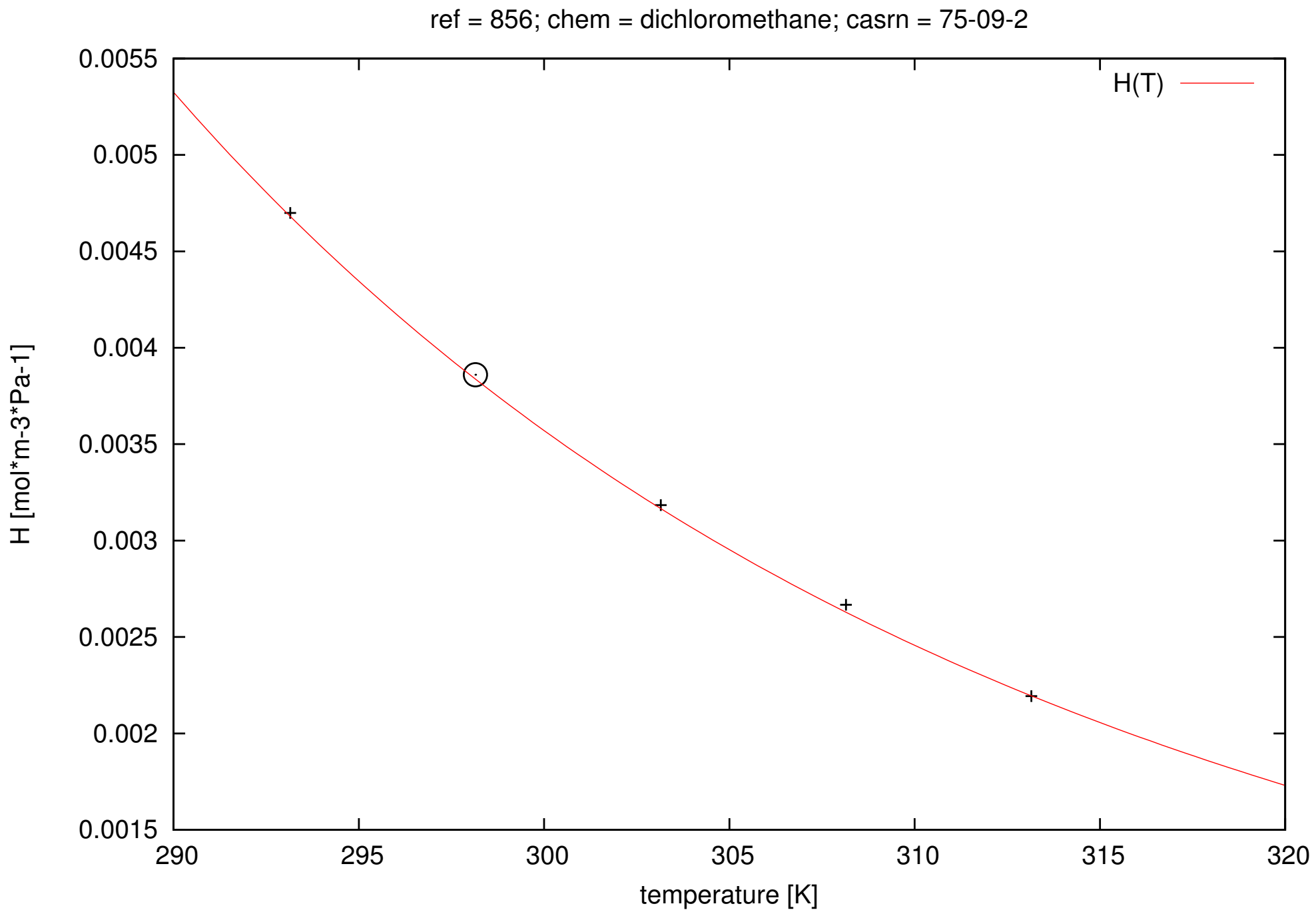

ref = 856; chem = (E)-1,2-dichloroethene; casrn = 156-60-5
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0015
0.0014
0.0013
0.0012
0.0011
0.001
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004
290
295
300
305
310
315
320

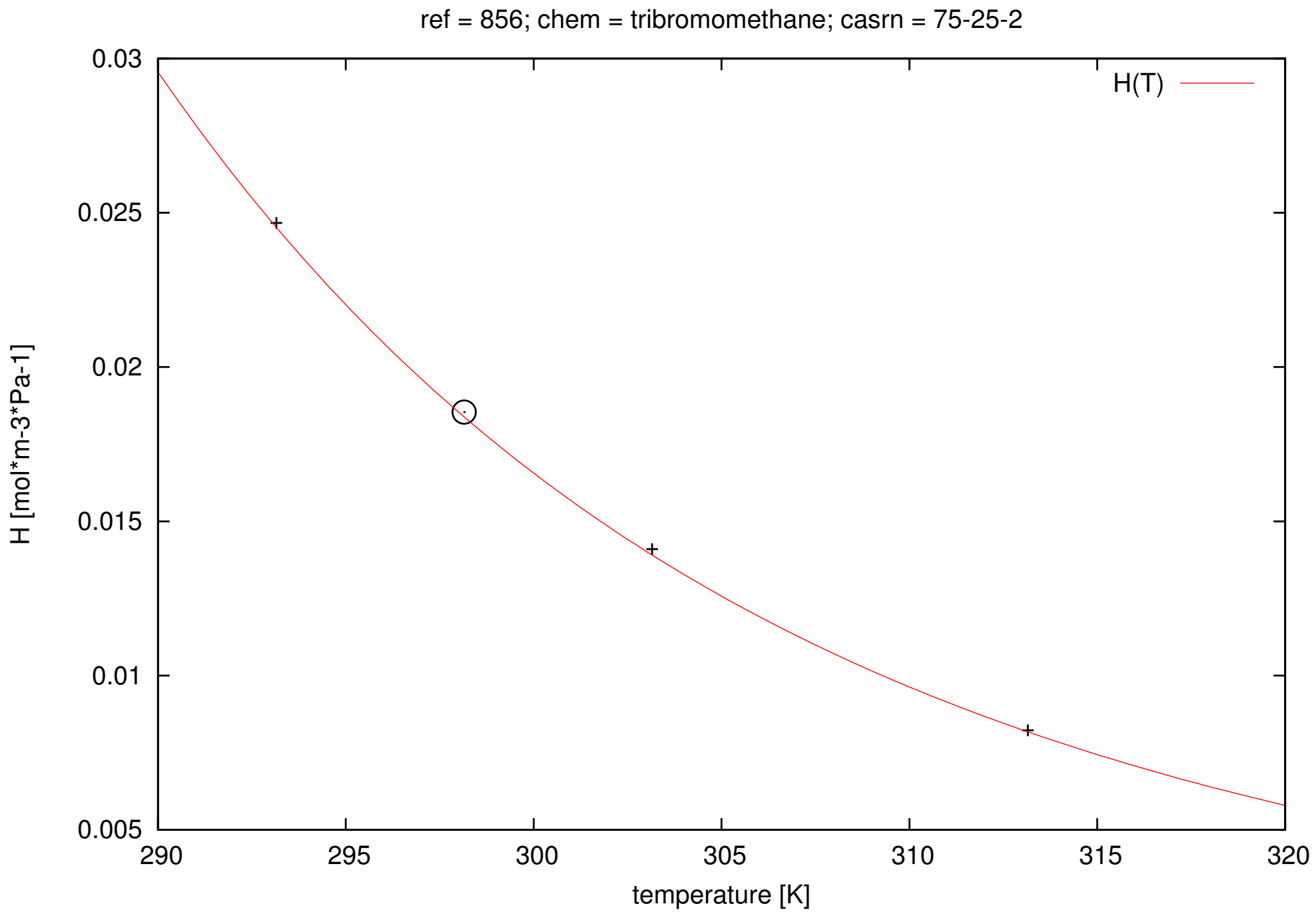

ref = 856; chem = tetrachloromethane; casrn = 56-23-5
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.00055
0.0005
0.00045
0.0004
0.00035
0.0003
0.00025
0.0002
0.00015
290
295
300
305
310
315
320

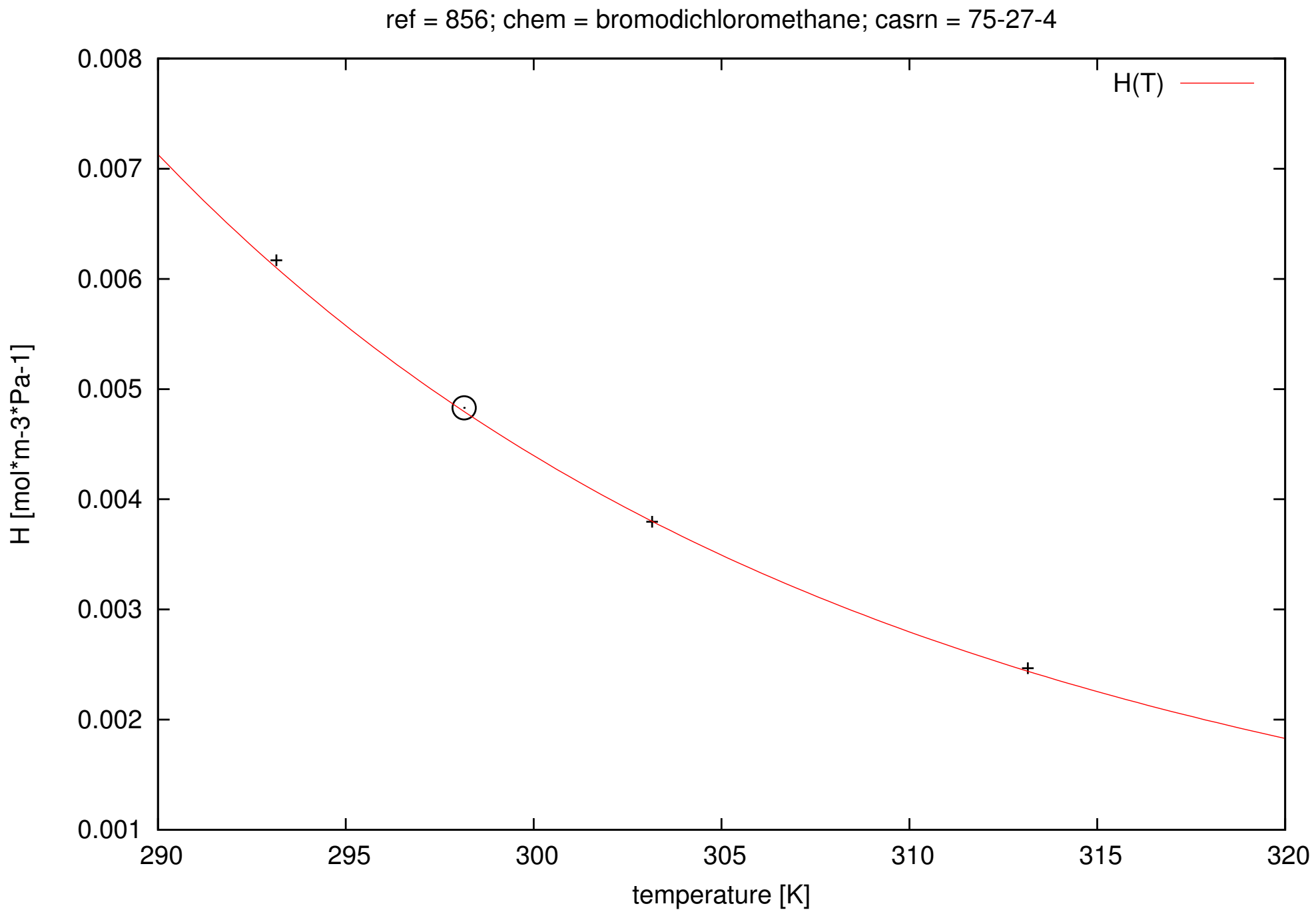

ref = 856; chem = 1,1,1,2-tetrachloroethane; casrn = 630-20-6
H(T)
H [mol*m-3*Pa-1]
0.007
0.006
0.005
0.004
0.003
0.002
0.001
290
295
300
305
310
315
320
temperature [K]

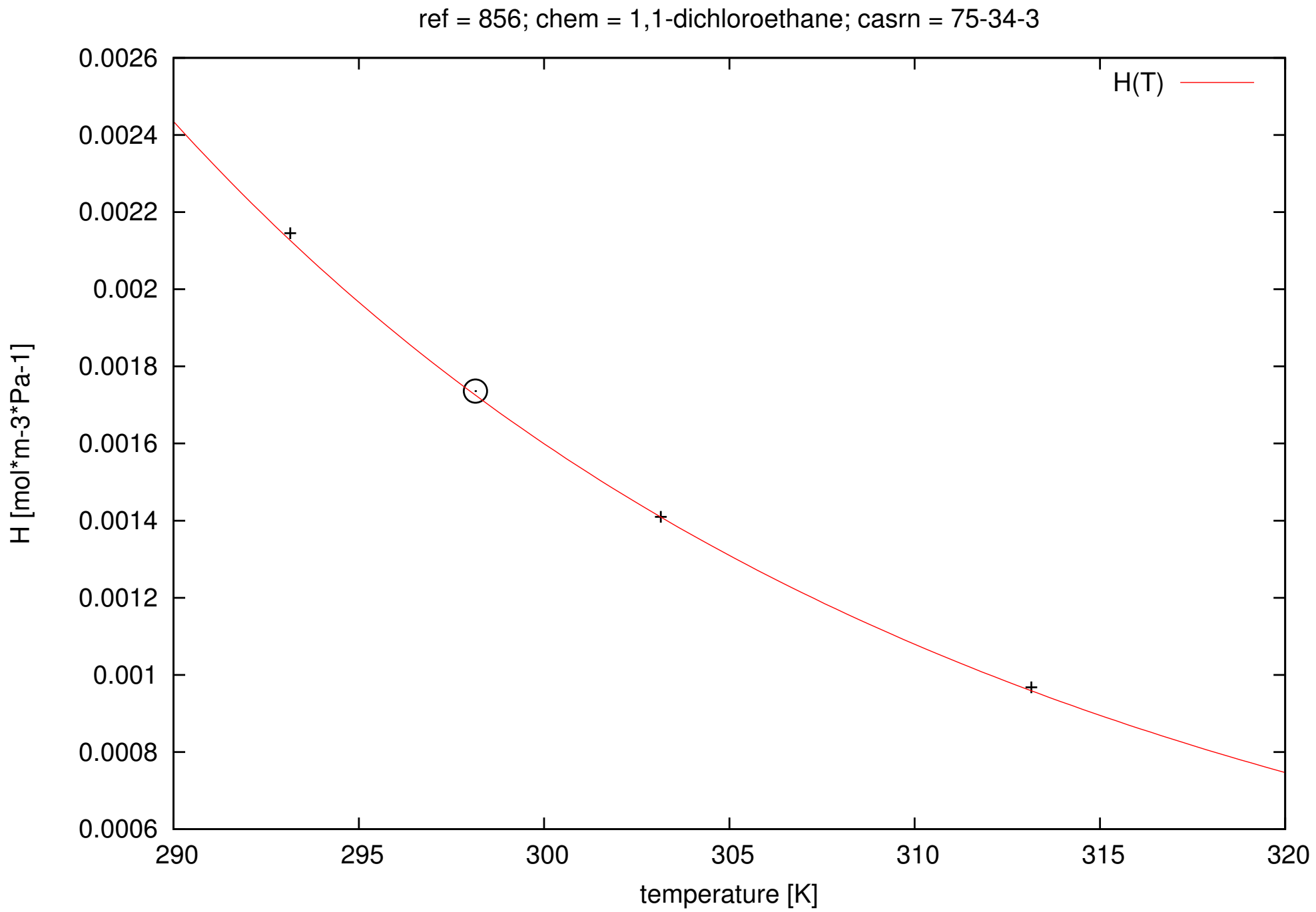

ref = 856; chem = 1,1,1-trichloroethane; casrn = 71-55-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
290
295
300
305
310
315
320

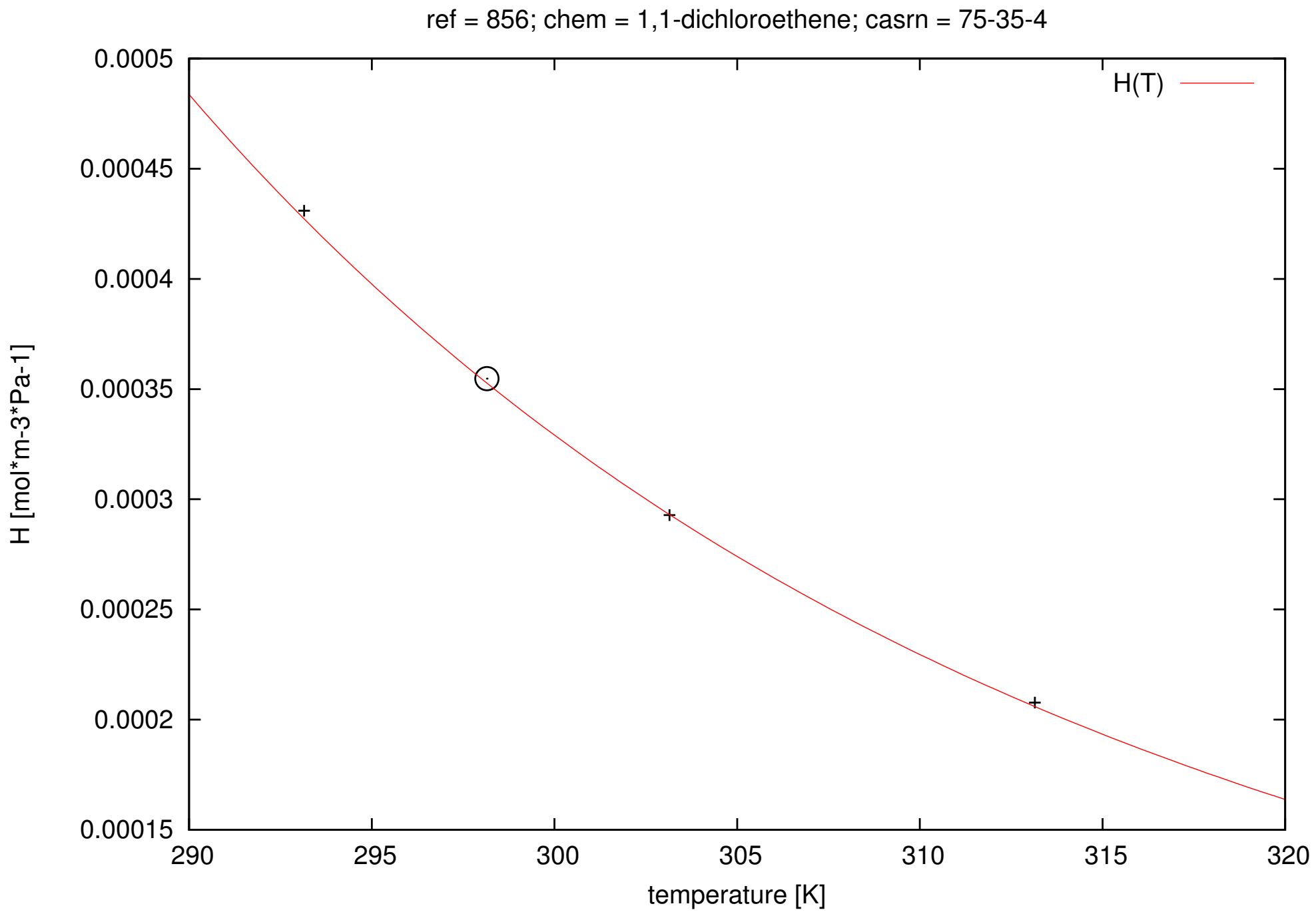

ref = 856; chem = dibromomethane; casrn = 74-95-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
290
295
300
305
310
315
320

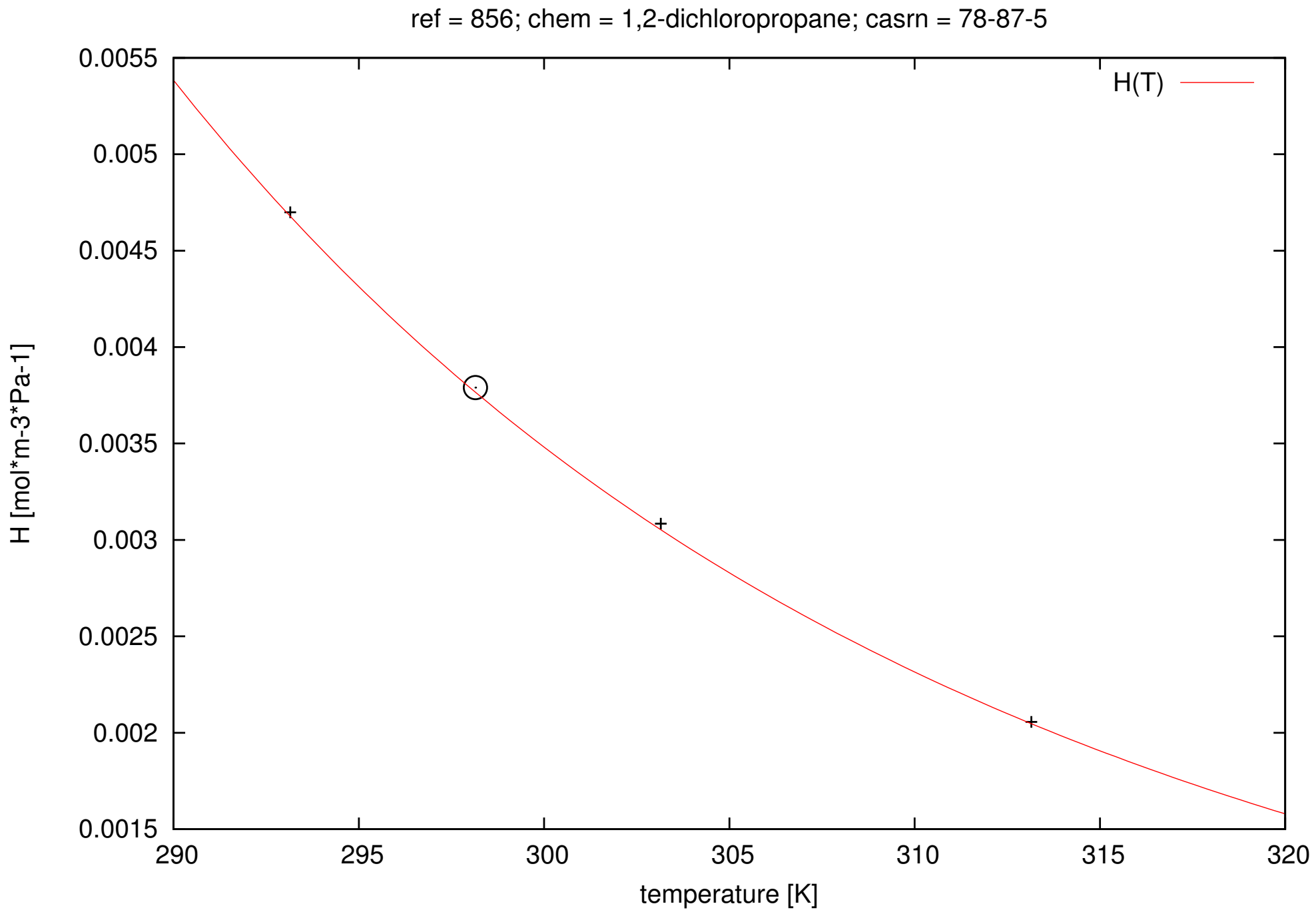

ref = 856; chem = dichloromethane; casrn = 75-09-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
290
295
300
305
310
315
320

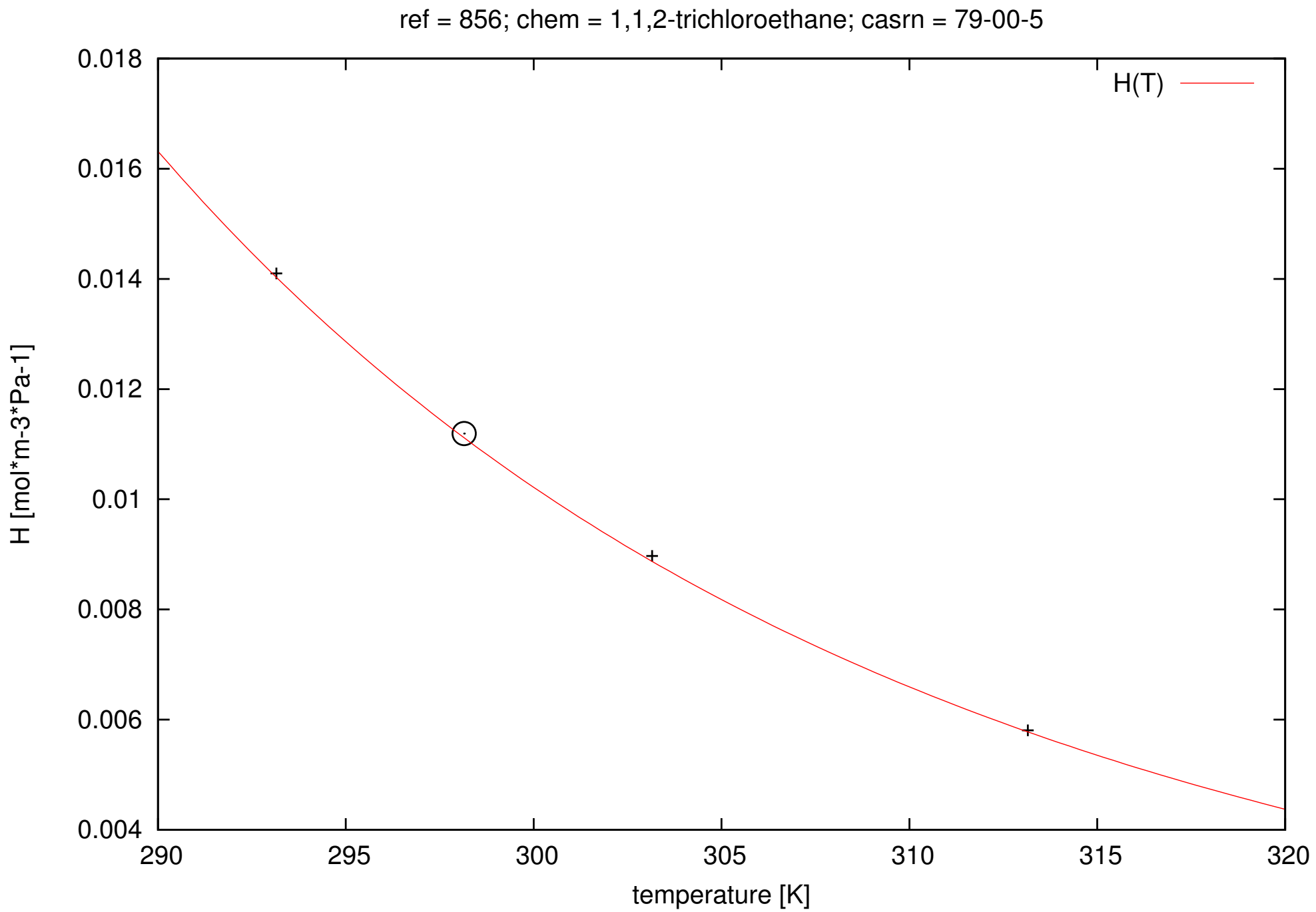

ref = 856; chem = tribromomethane; casrn = 75-25-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.03
0.025
0.02
0.015
0.01
0.005
290
295
300
305
310
315
320

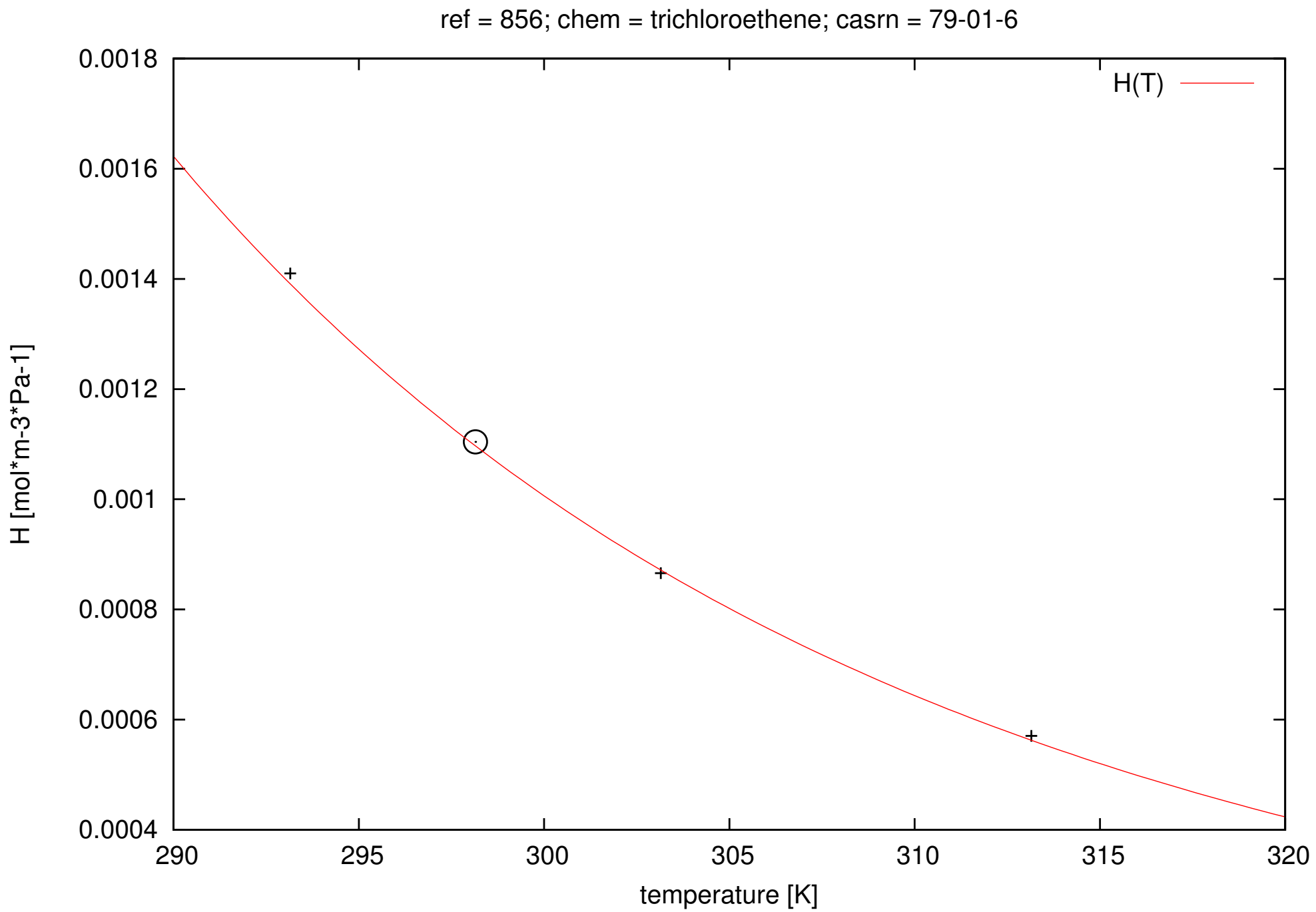

ref = 856; chem = bromodichloromethane; casrn = 75-27-4
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
290
295
300
305
310
315
320

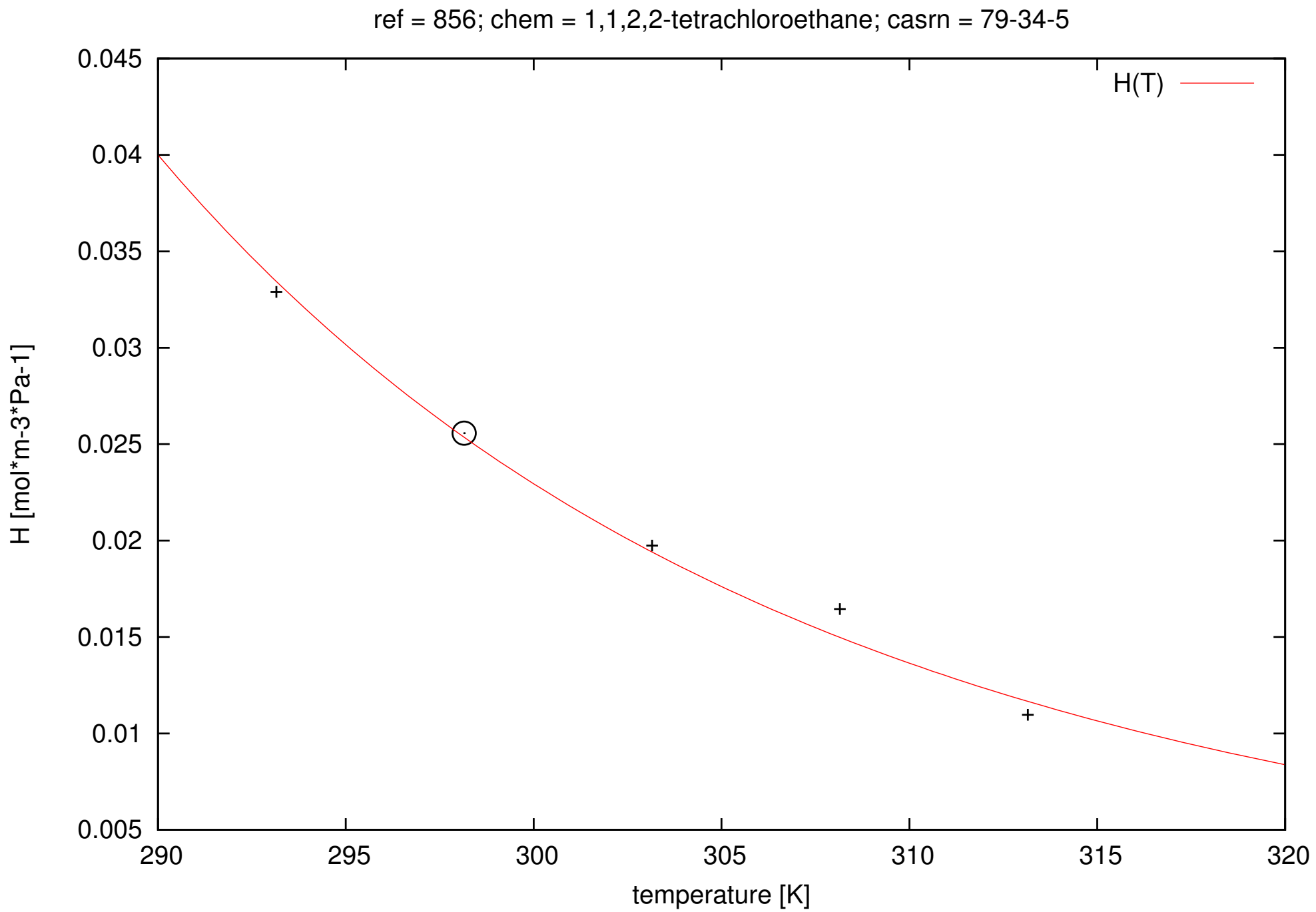

ref = 856; chem = 1,1-dichloroethane; casrn = 75-34-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
290
295
300
305
310
315
320

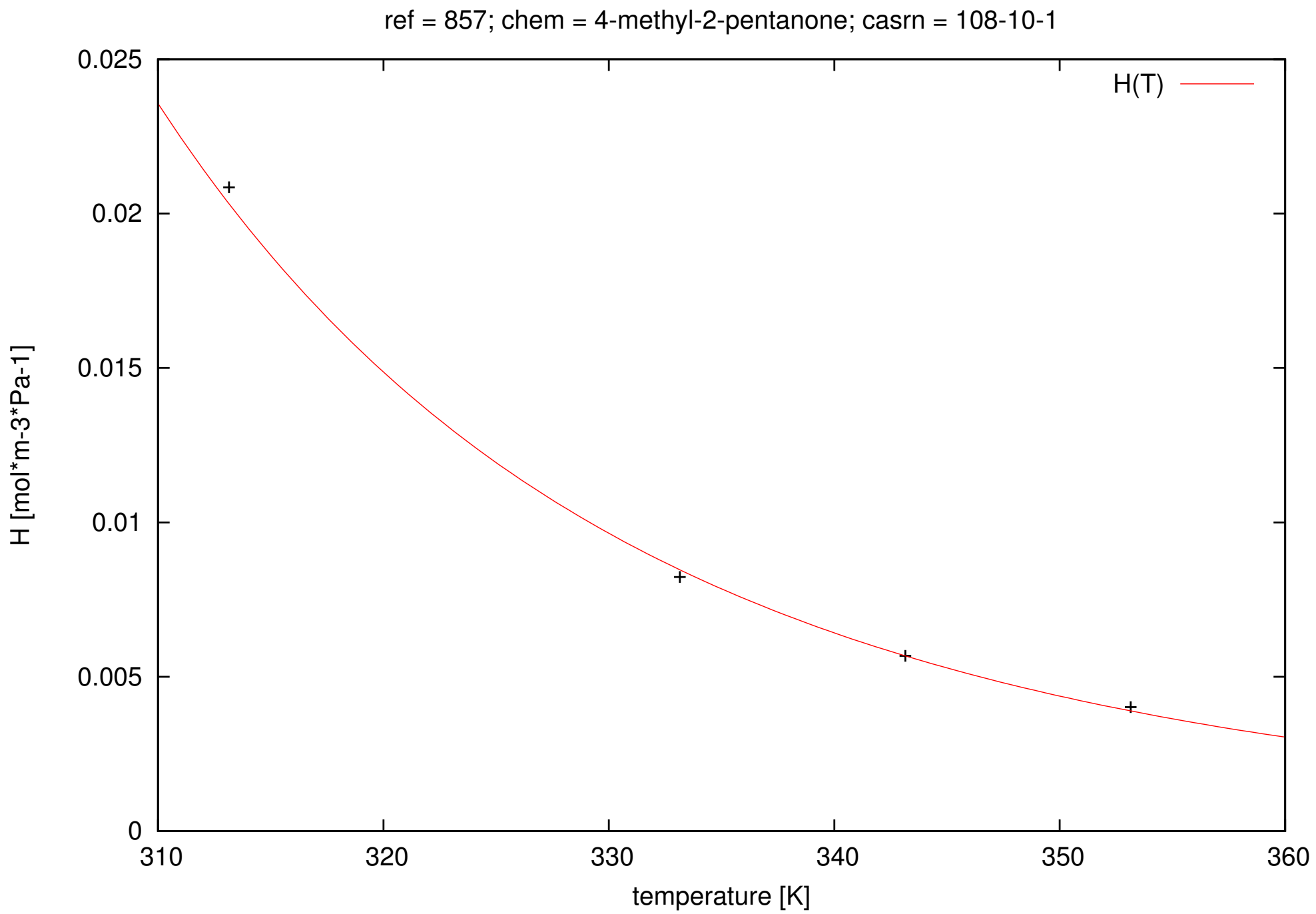

ref = 856; chem = 1,1-dichloroethene; casrn = 75-35-4
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0005
0.00045
0.0004
0.00035
0.0003
0.00025
0.0002
0.00015
290
295
300
305
310
315
320

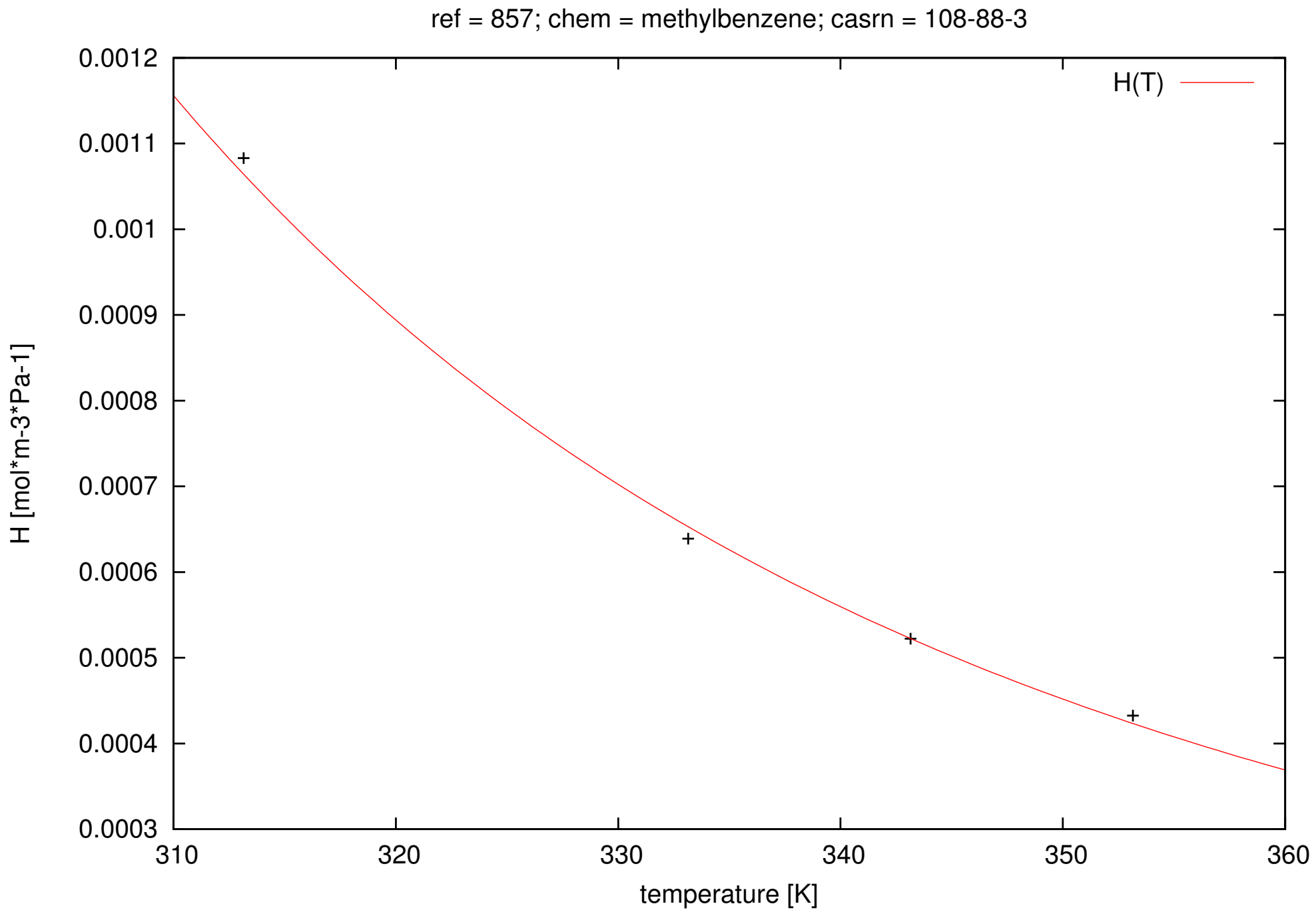

ref = 856; chem = 1,2-dichloropropane; casrn = 78-87-5
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
290
295
300
305
310
315
320

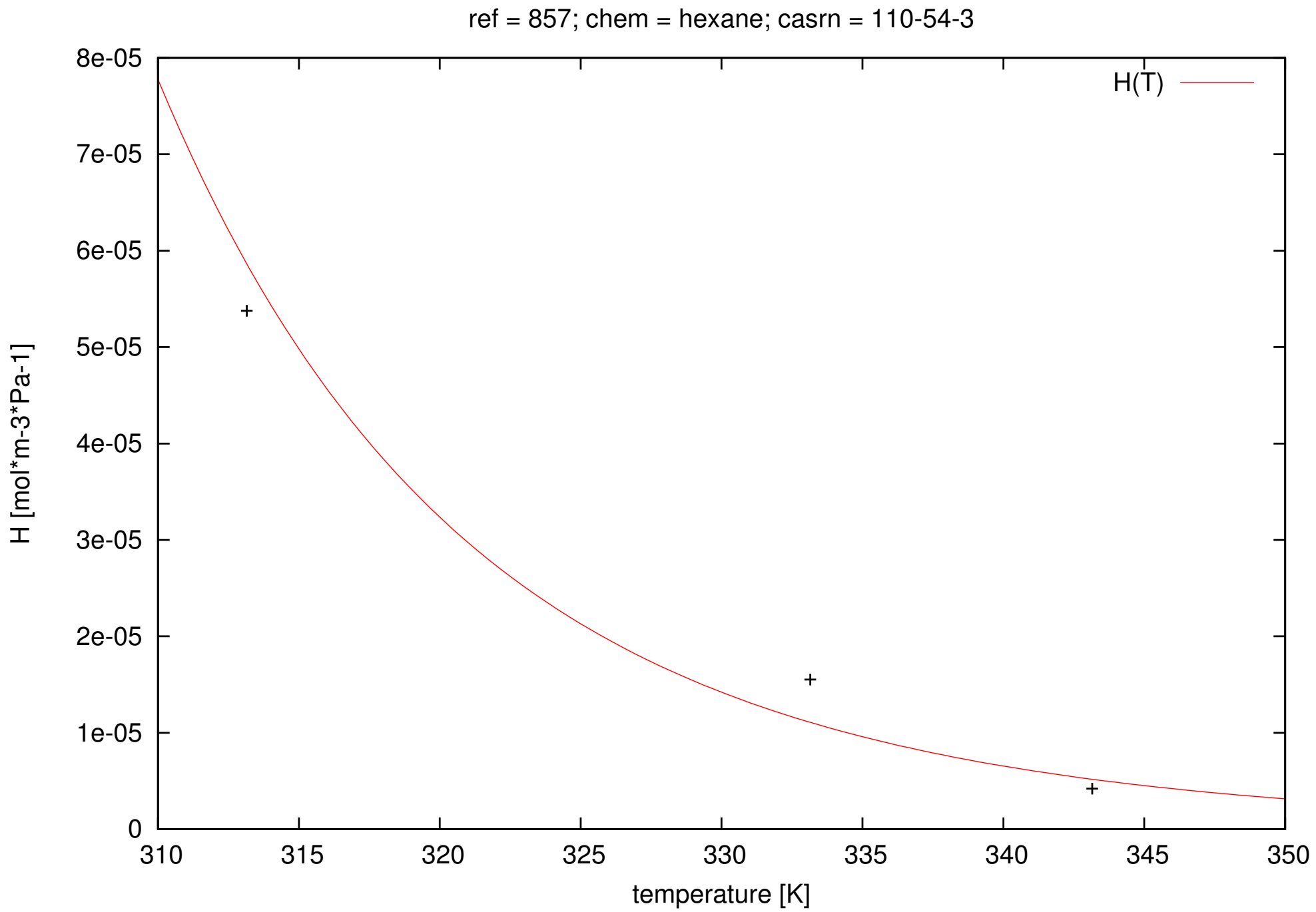

ref = 856; chem = 1,1,2-trichloroethane; casrn = 79-00-5
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
290
295
300
305
310
315
320

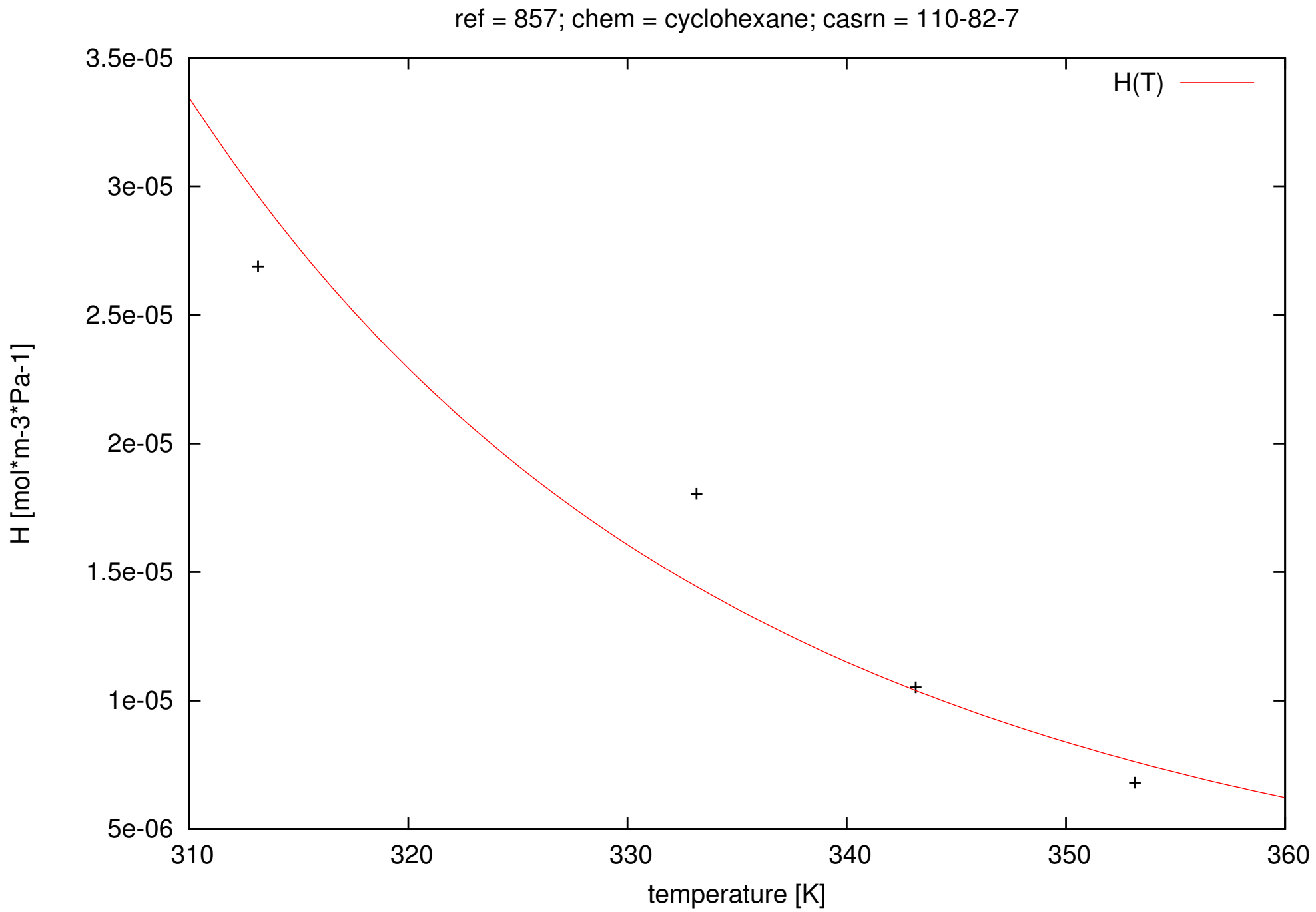

ref = 856; chem = trichloroethene; casrn = 79-01-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
290
295
300
305
310
315
320

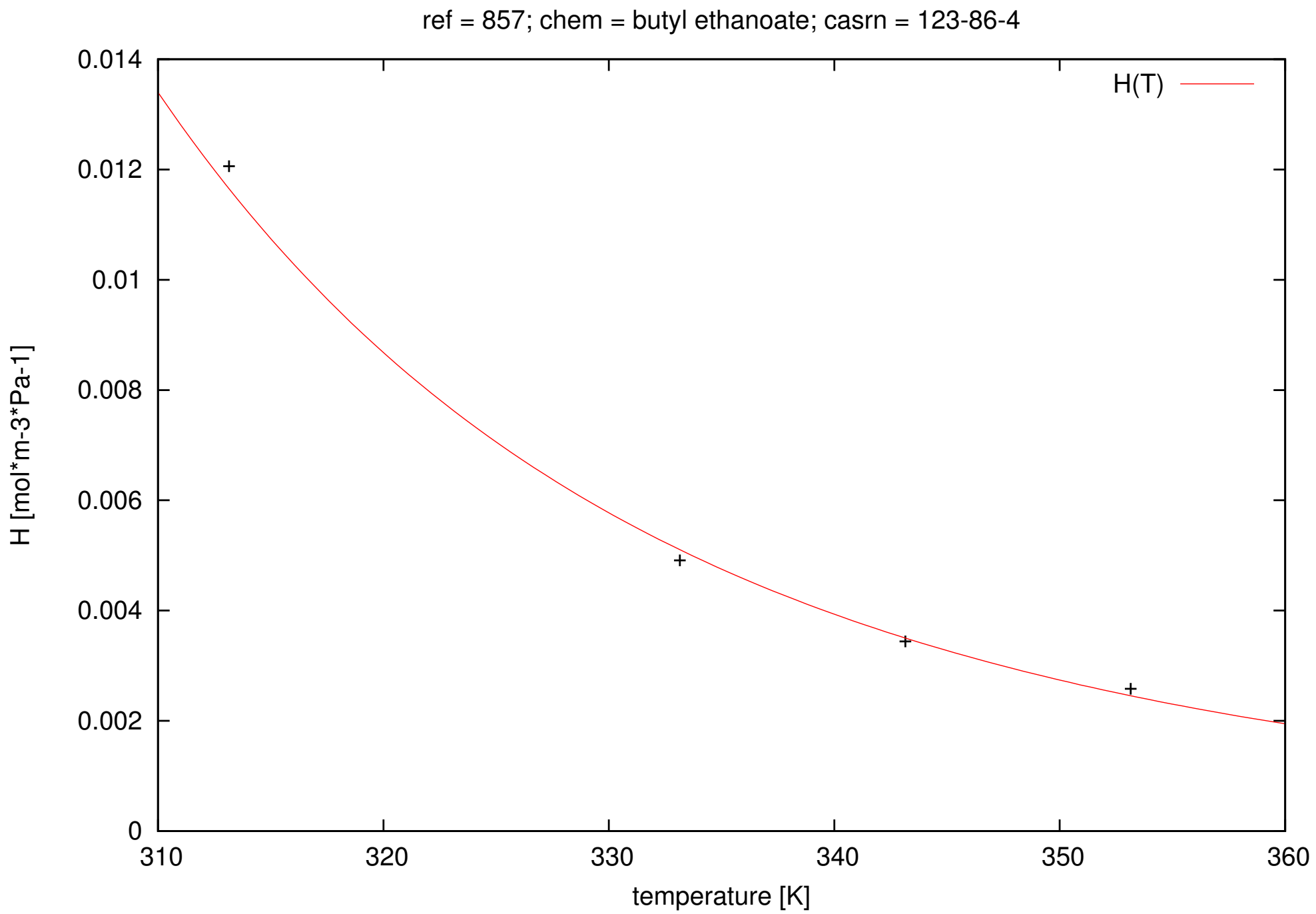

ref = 856; chem = 1,1,2,2-tetrachloroethane; casrn = 79-34-5
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
290
295
300
305
310
315
320

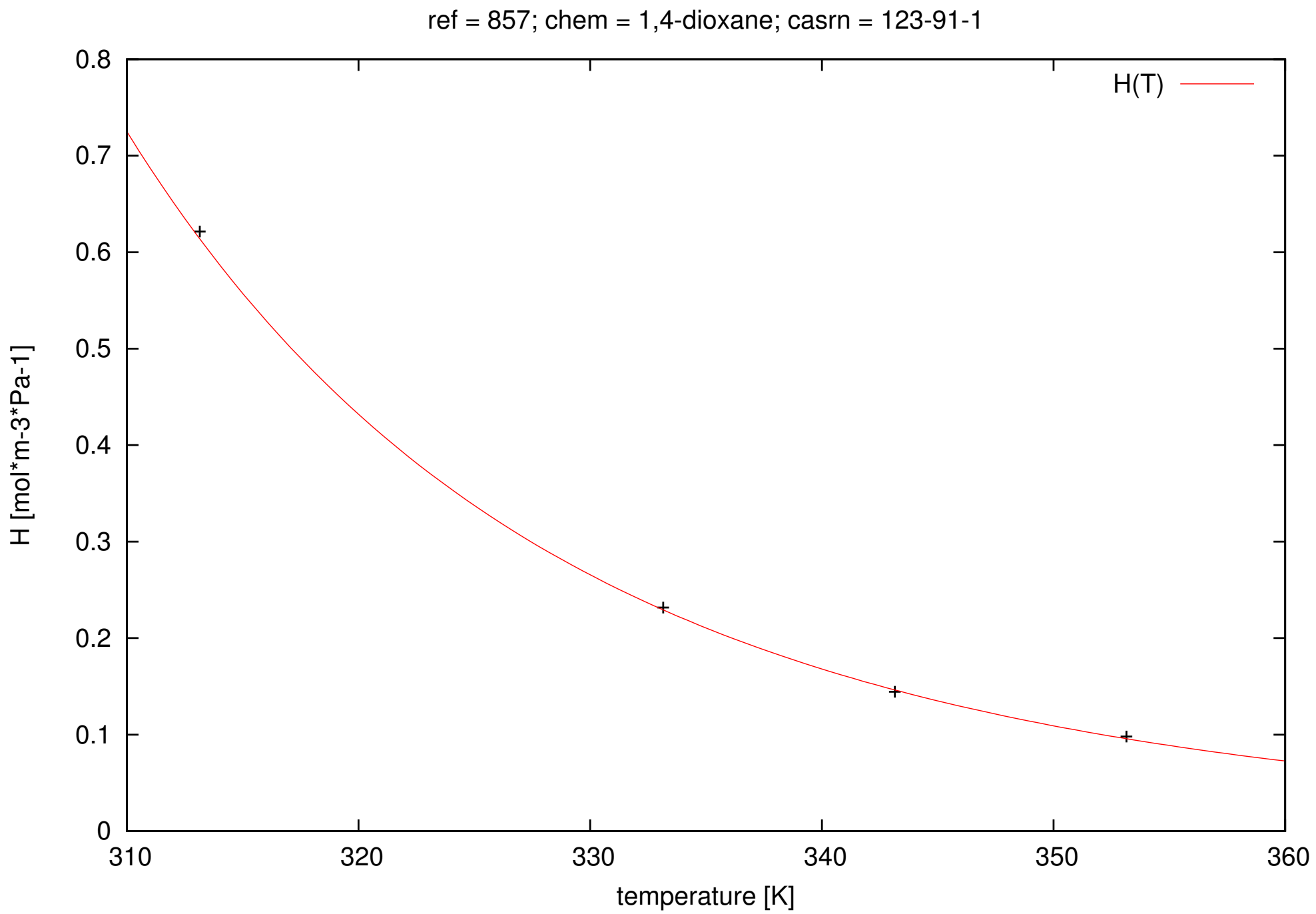

ref = 857; chem = 4-methyl-2-pentanone; casrn = 108-10-1
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.025
0.02
0.015
0.01
0.005
0
310
320
330
340
350
360

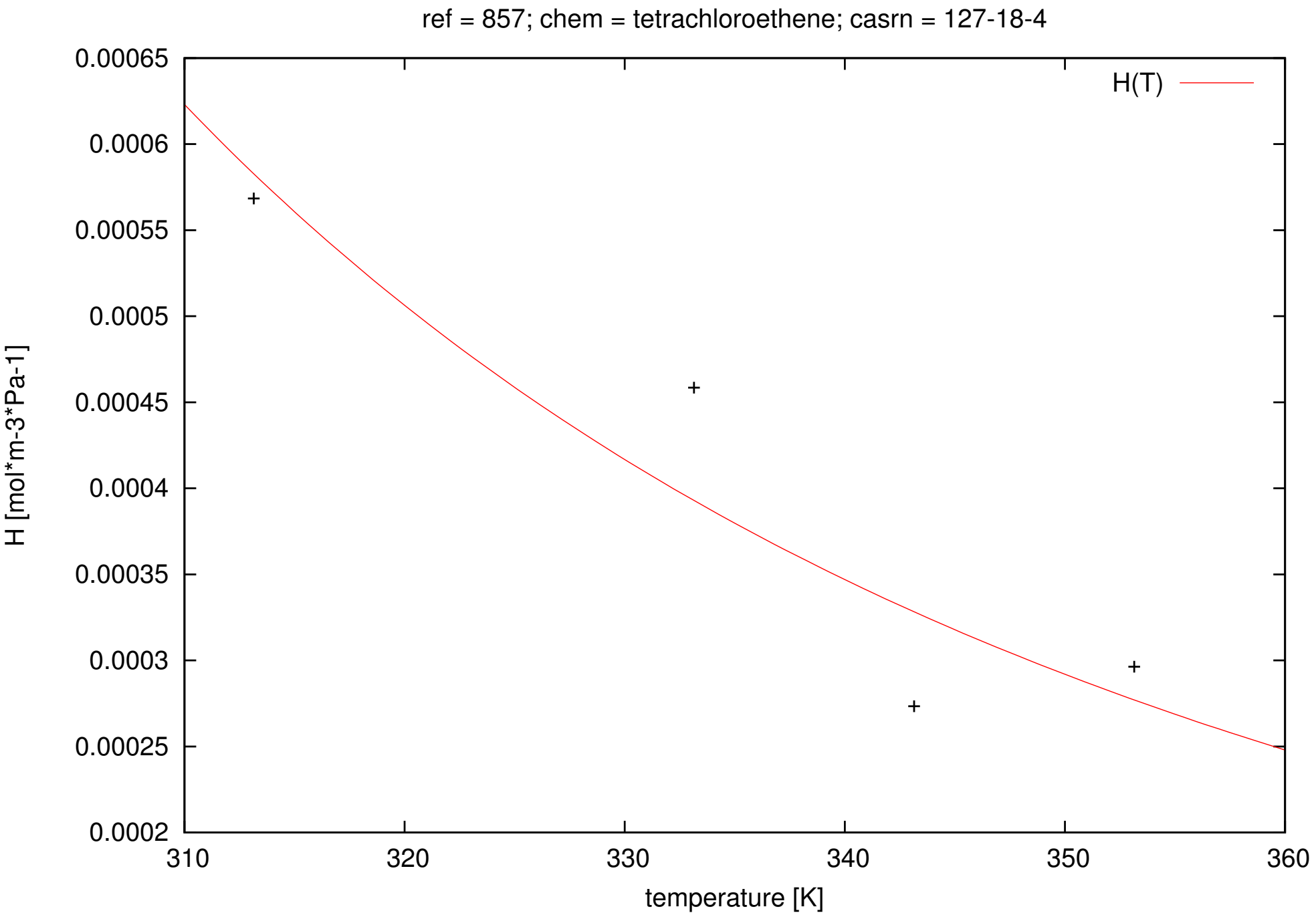

ref = 857; chem = methylbenzene; casrn = 108-88-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0012
0.0011
0.001
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
310
320
330
340
350
360

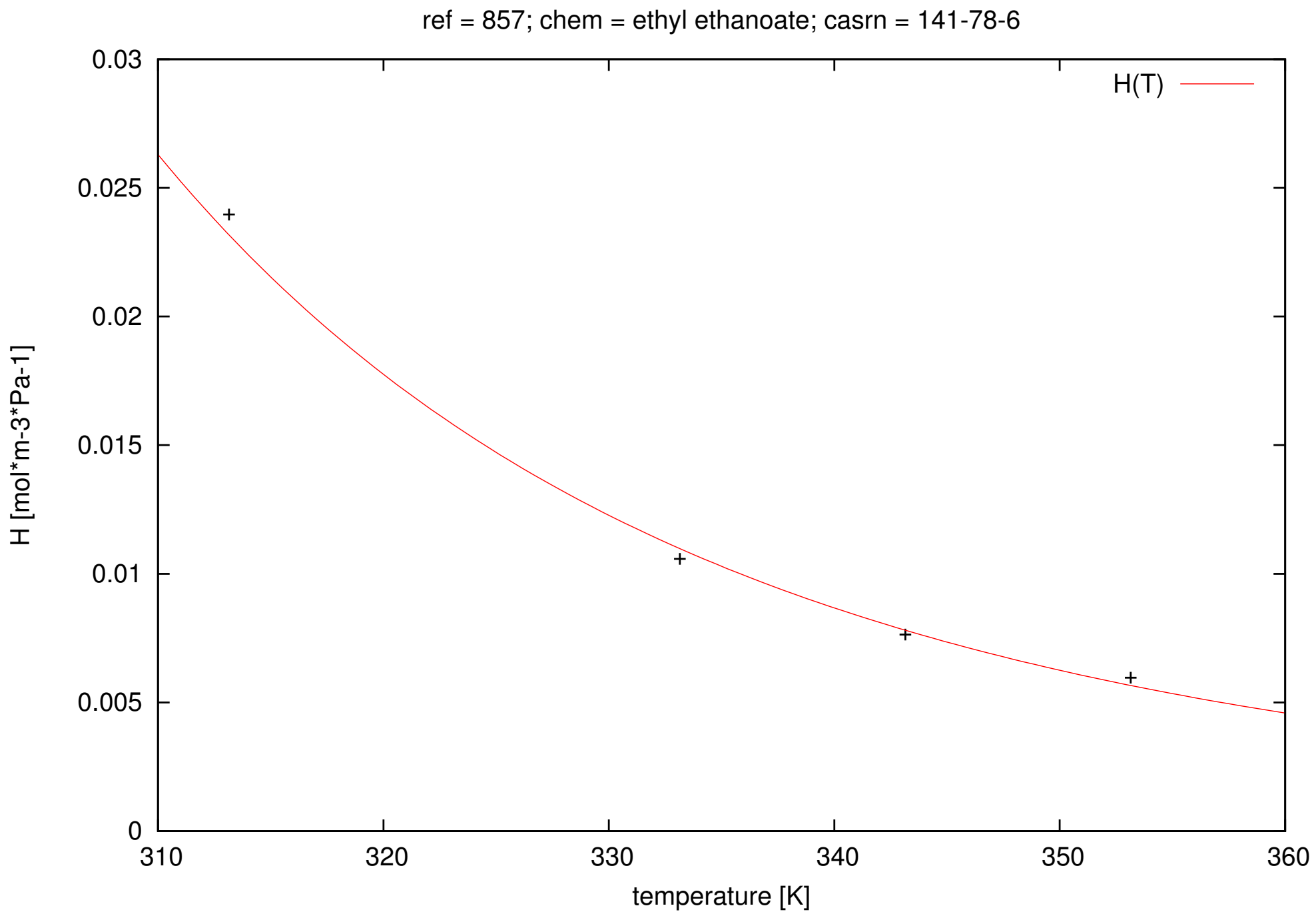

ref = 857; chem = hexane; casrn = 110-54-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
8e-05
7e-05
6e-05
5e-05
4e-05
3e-05
2e-05
1e-05
0
310
315
320
325
330
335
340
345
350

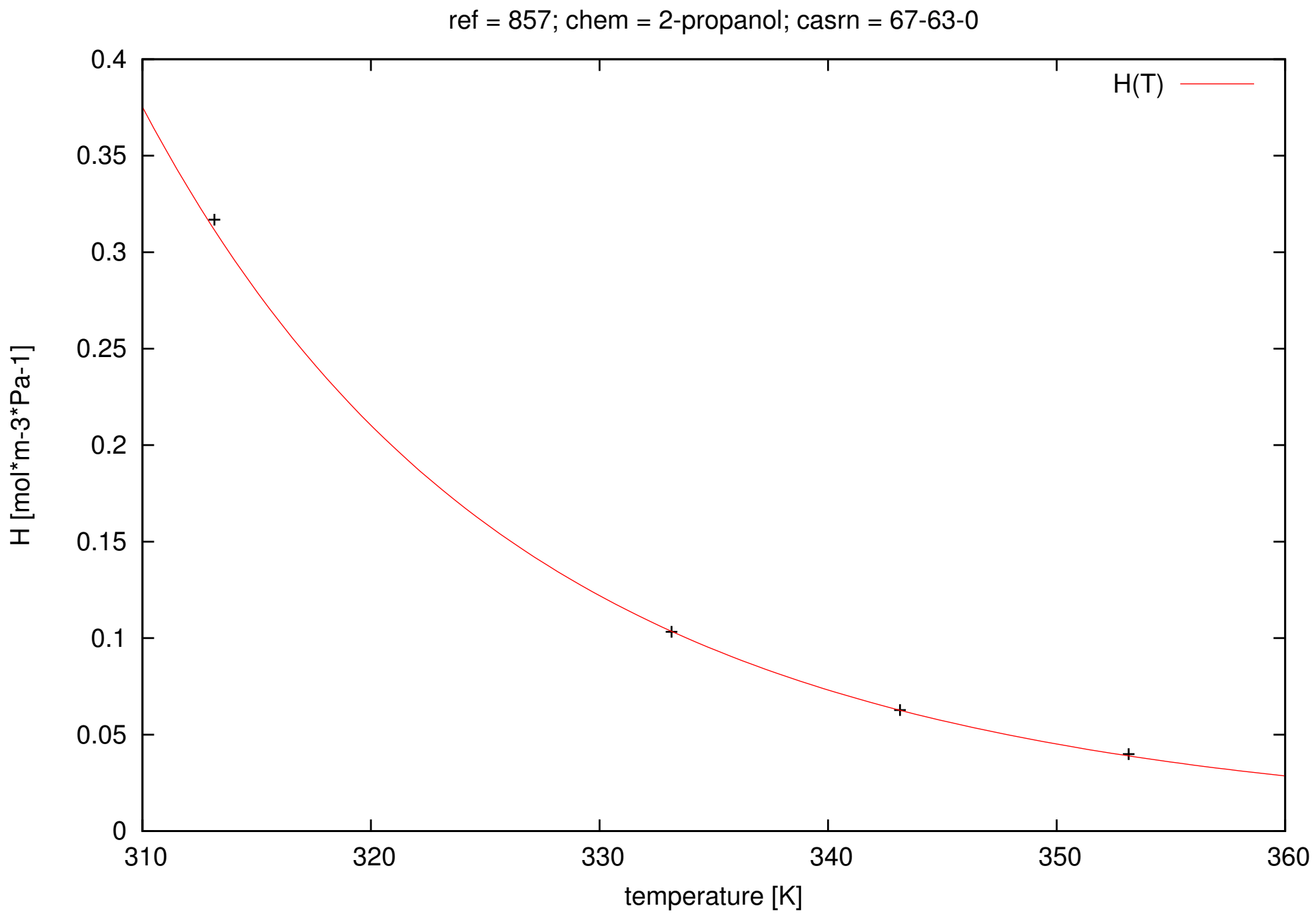

ref = 857; chem = cyclohexane; casrn = 110-82-7
H(T)
H [mol*m-3*Pa-1]
temperature [K]
3.5e-05
3e-05
2.5e-05
2e-05
1.5e-05
1e-05
5e-06
310
320
330
340
350
360

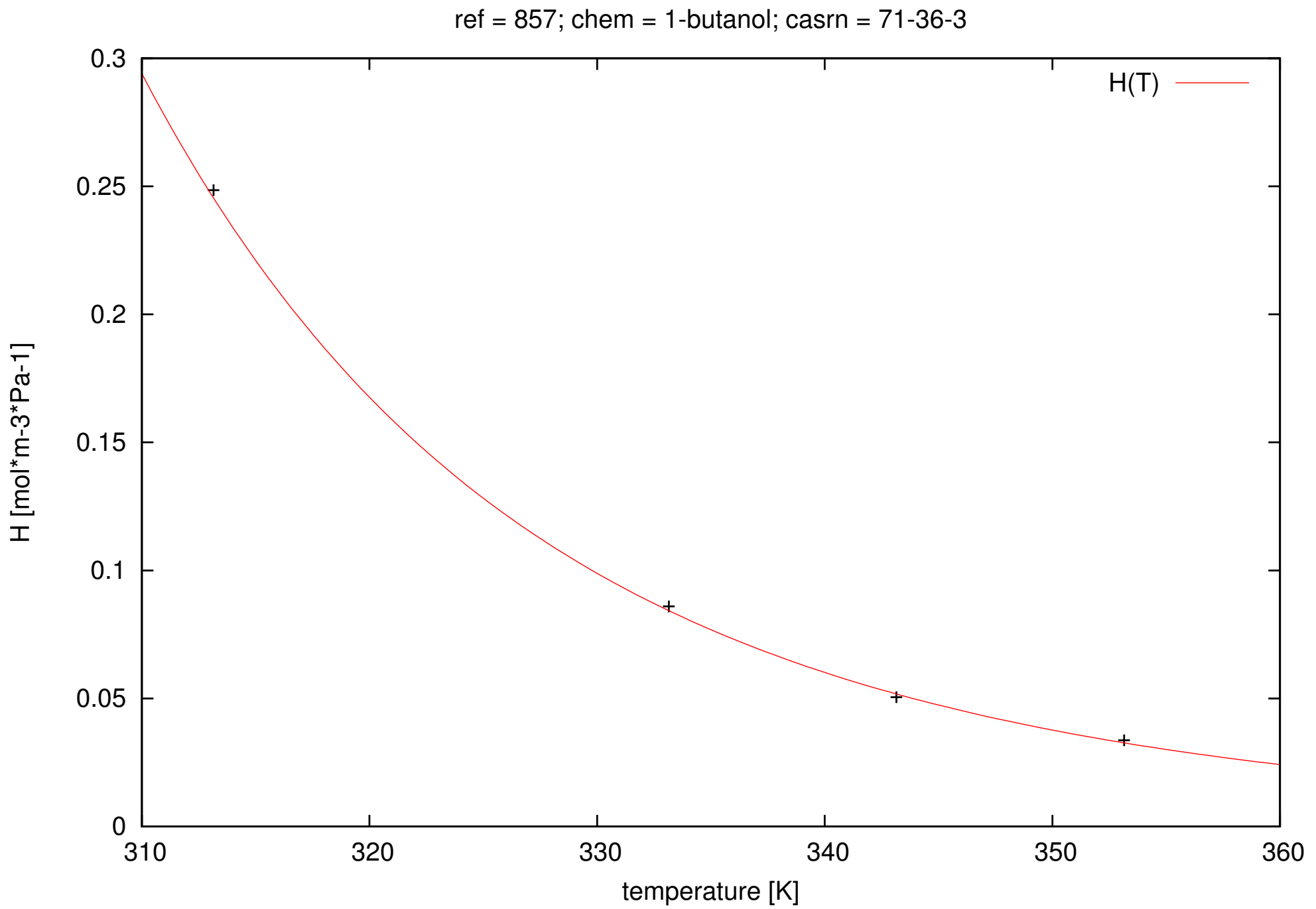

ref = 857; chem = butyl ethanoate; casrn = 123-86-4
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
310
320
330
340
350
360

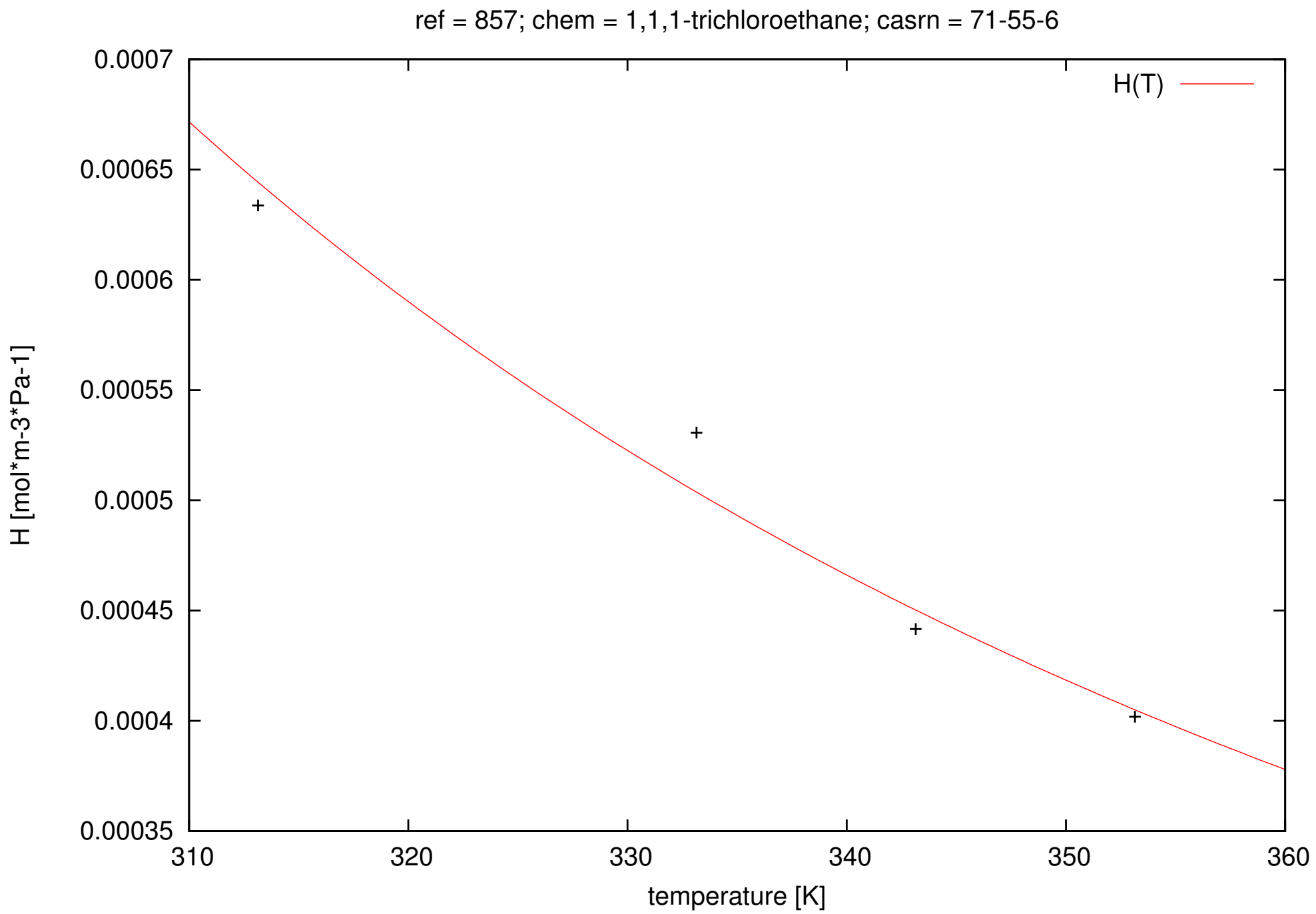

ref = 857; chem = 1,4-dioxane; casrn = 123-91-1
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
310
320
330
340
350
360

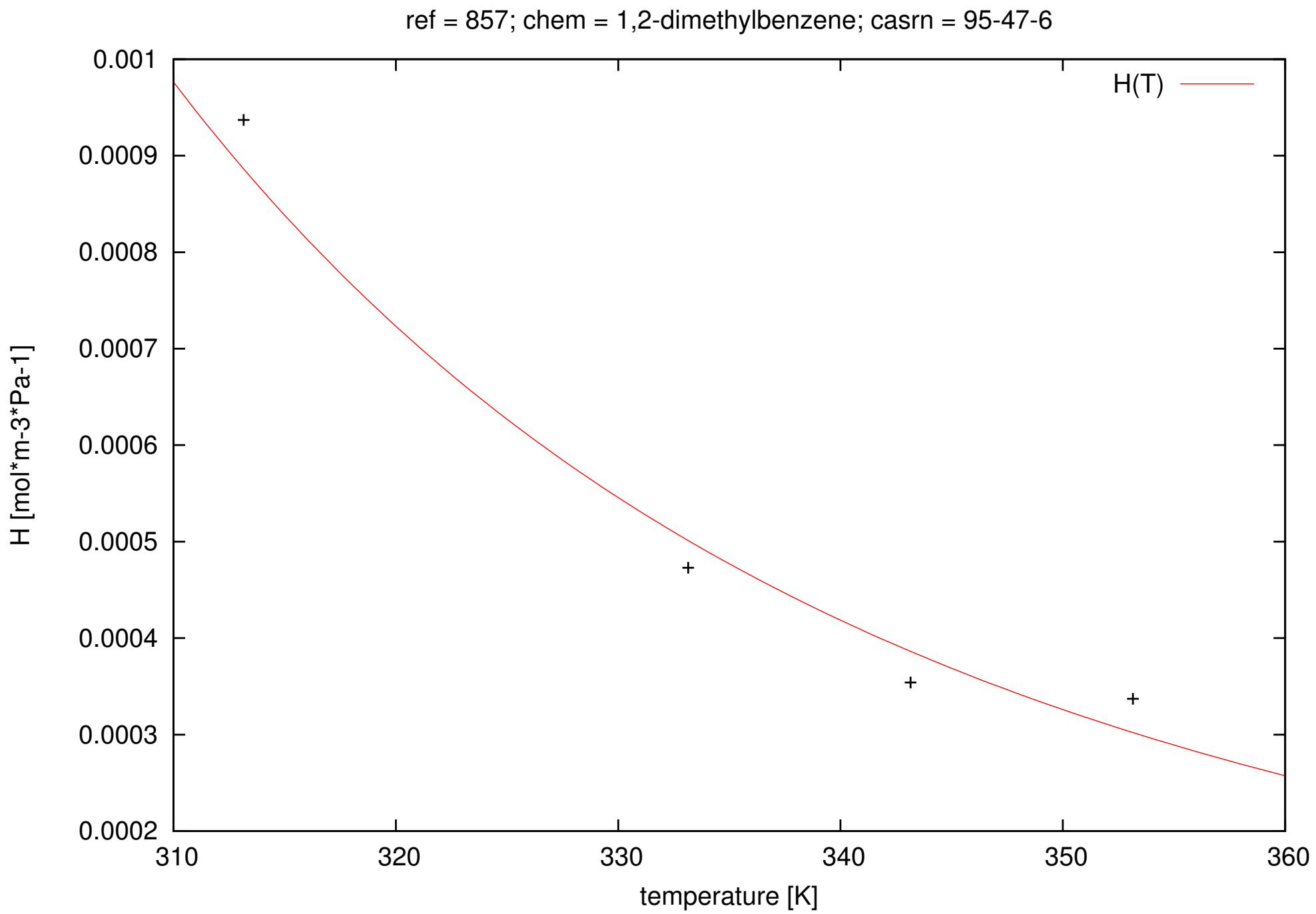

ref = 857; chem = tetrachloroethene; casrn = 127-18-4
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.00065
0.0006
0.00055
0.0005
0.00045
0.0004
0.00035
0.0003
0.00025
0.0002
310
320
330
340
350
360

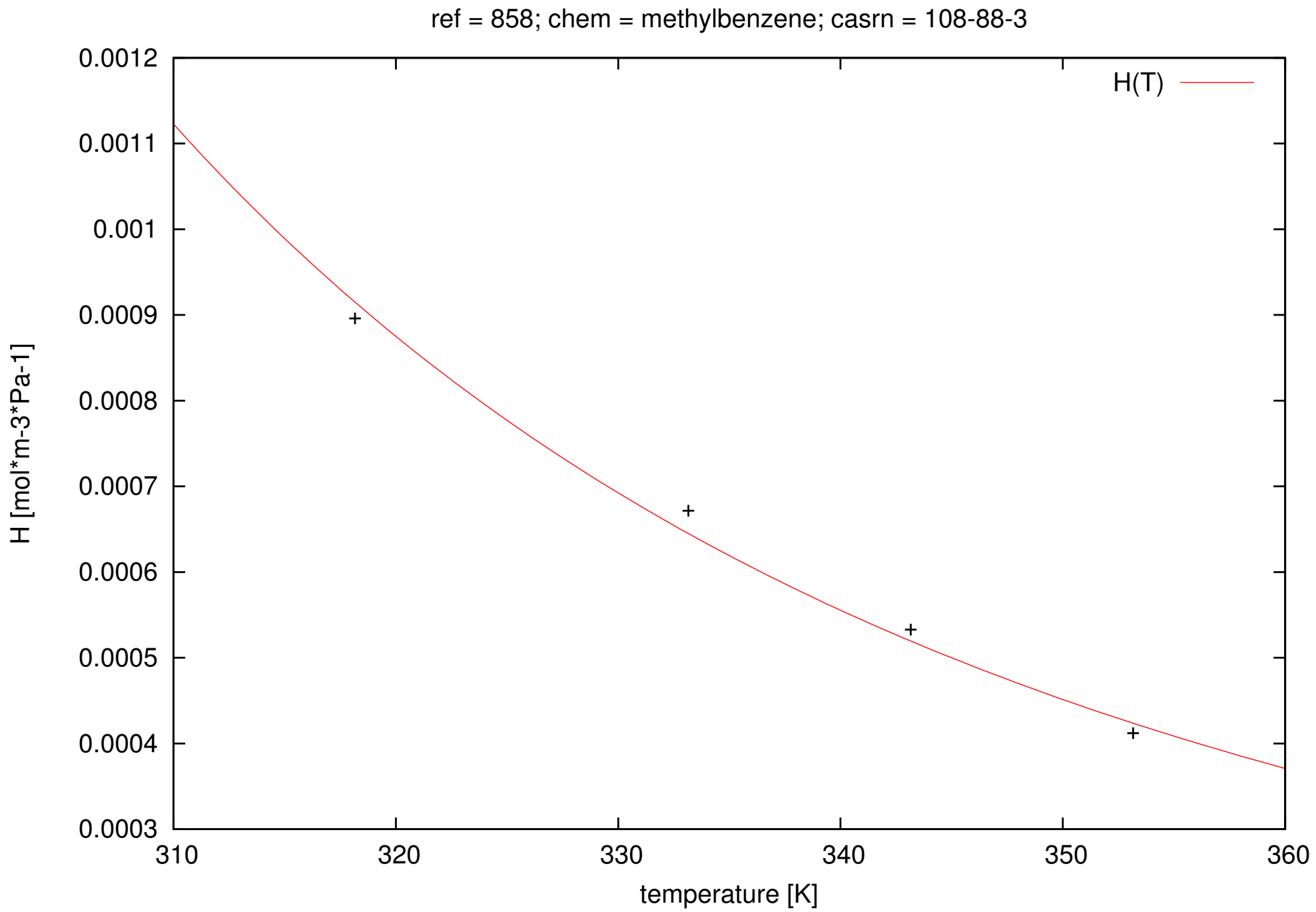

ref = 857; chem = ethyl ethanoate; casrn = 141-78-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.03
0.025
0.02
0.015
0.01
0.005
0
310
320
330
340
350
360

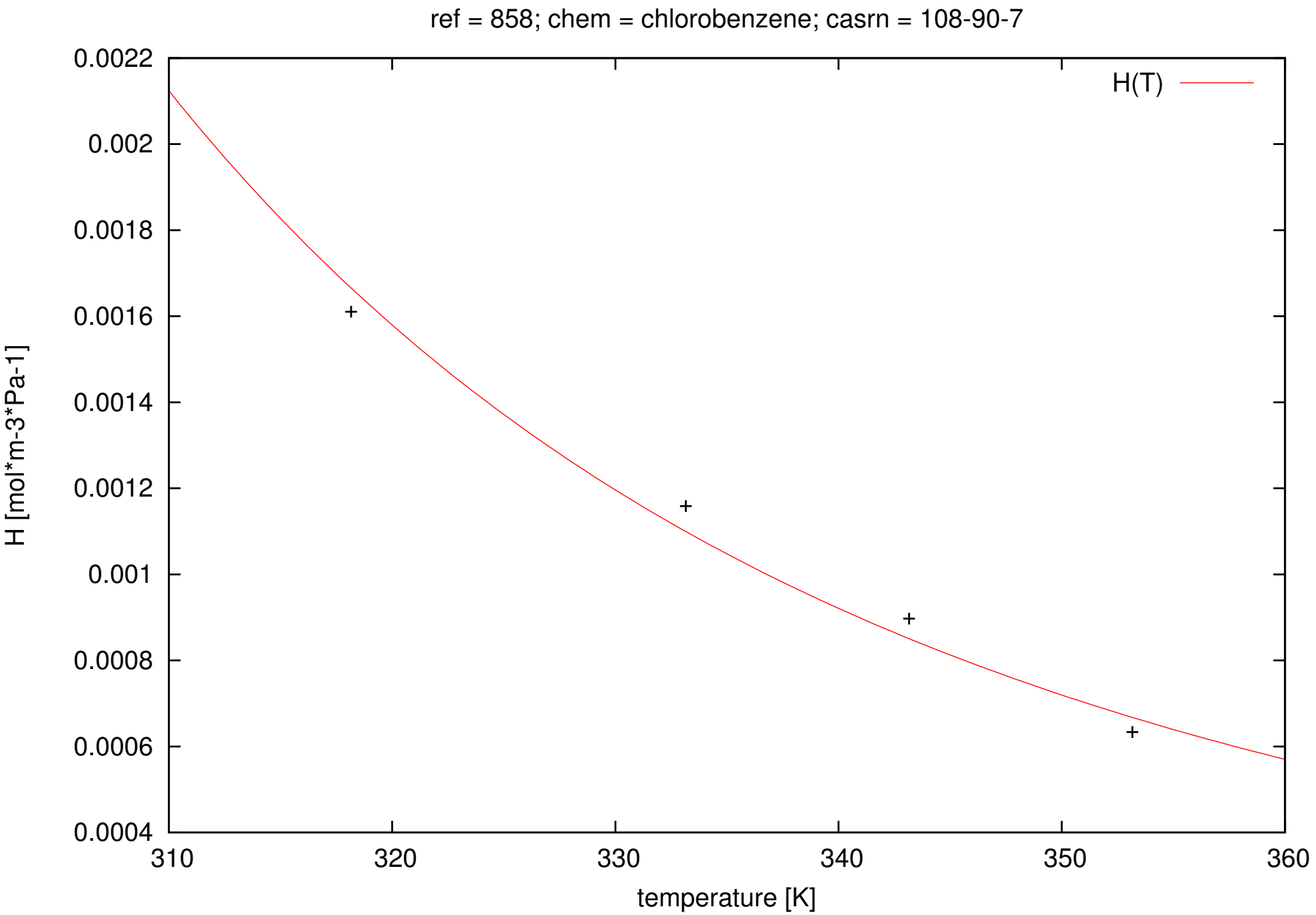

ref = 857; chem = 2-propanol; casrn = 67-63-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
310
320
330
340
350
360

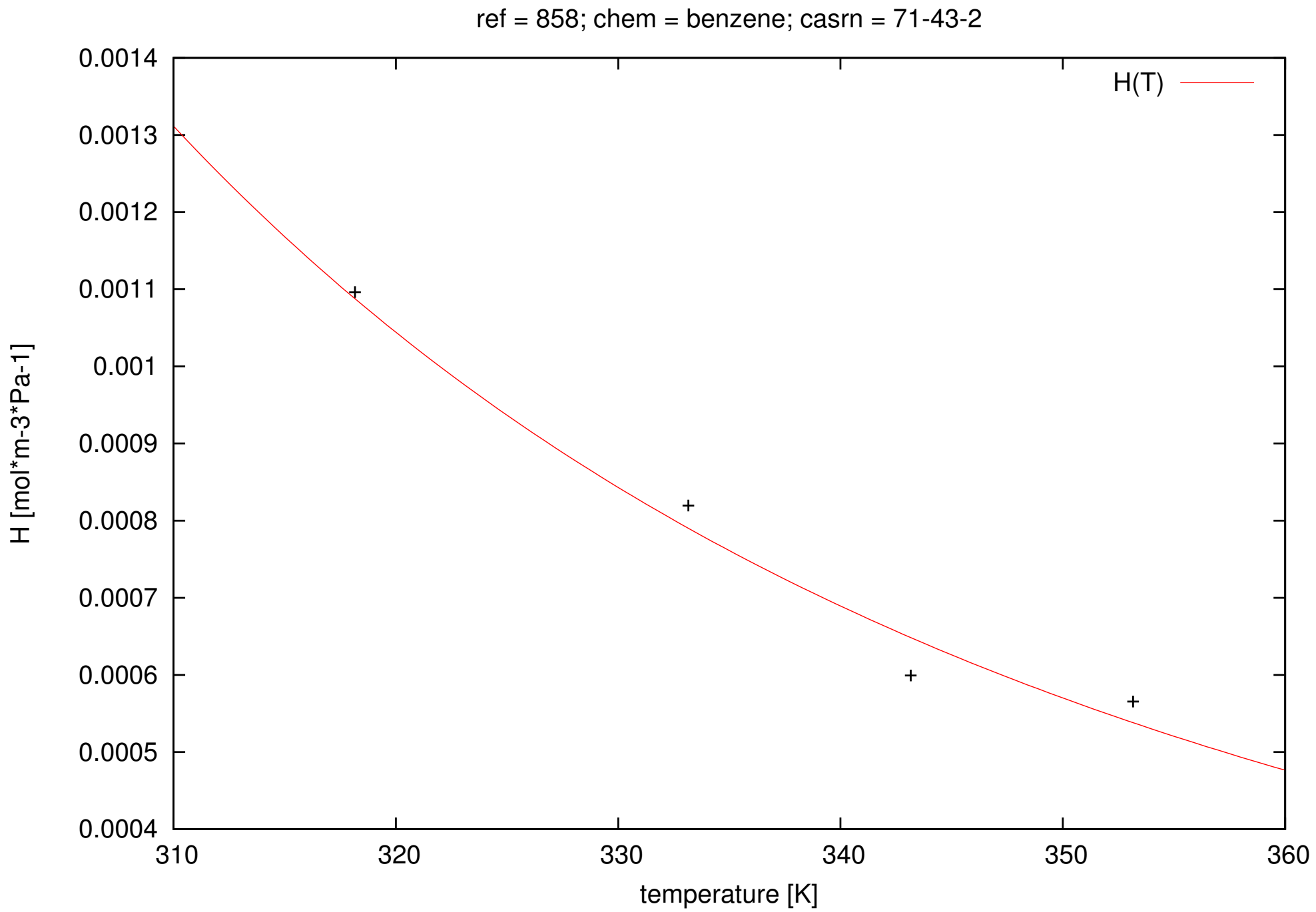

ref = 857; chem = 1-butanol; casrn = 71-36-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.3
0.25
0.2
0.15
0.1
0.05
0
310
320
330
340
350
360

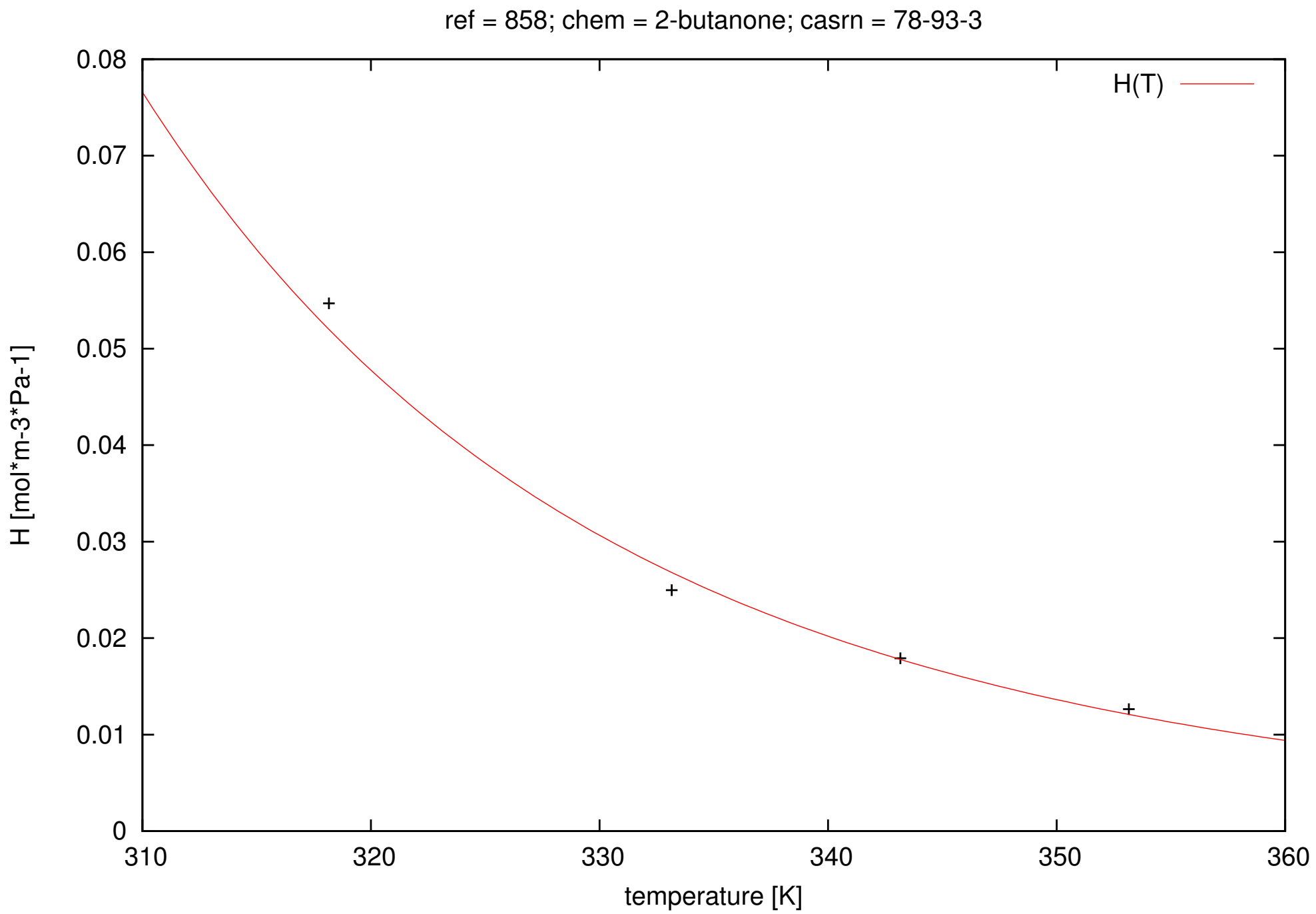

ref = 857; chem = 1,1,1-trichloroethane; casrn = 71-55-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0007
0.00065
0.0006
0.00055
0.0005
0.00045
0.0004
0.00035
310
320
330
340
350
360

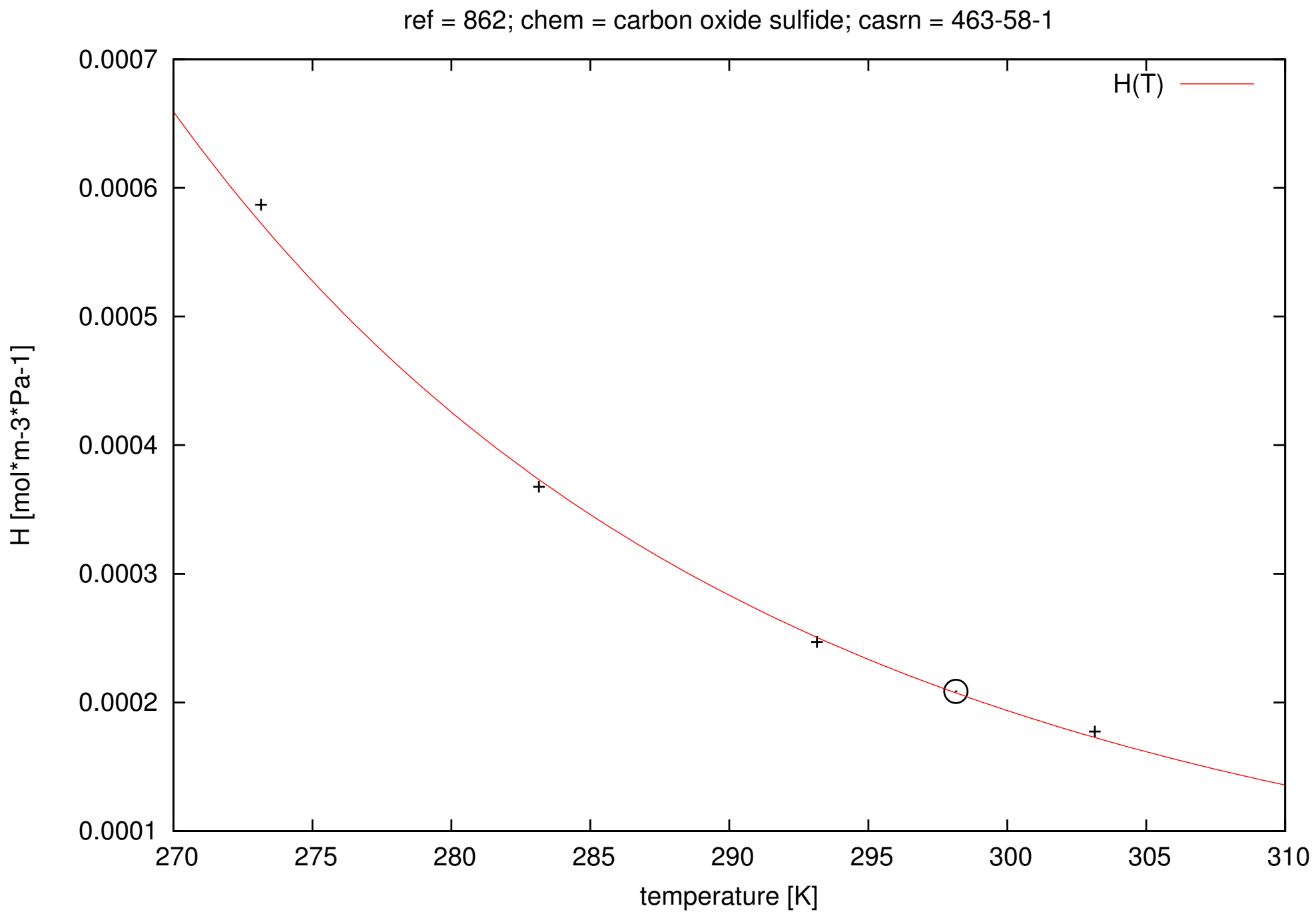

ref = 857; chem = 1,2-dimethylbenzene; casrn = 95-47-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.001
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
310
320
330
340
350
360

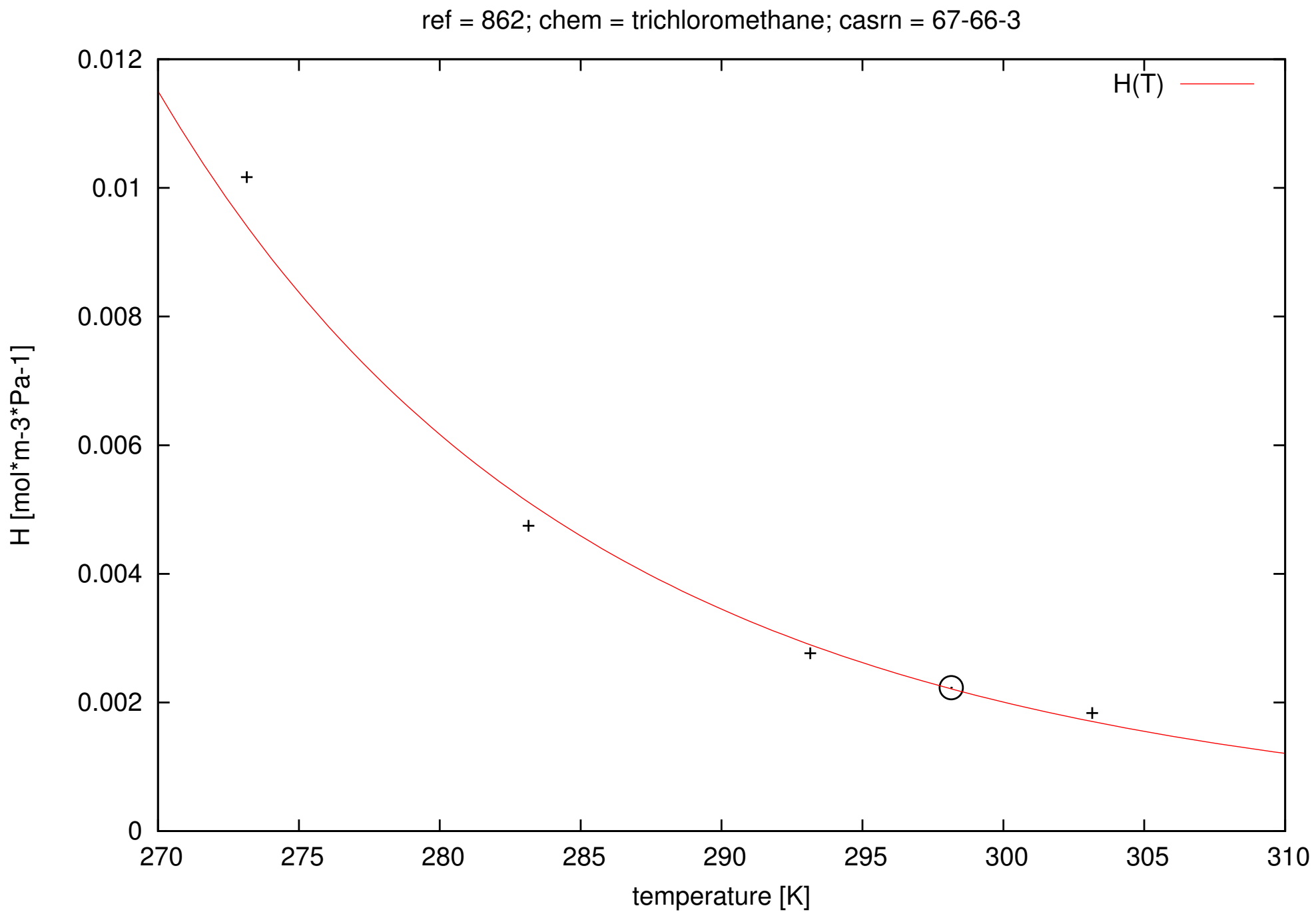

ref = 858; chem = methylbenzene; casrn = 108-88-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0012
0.0011
0.001
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
310
320
330
340
350
360

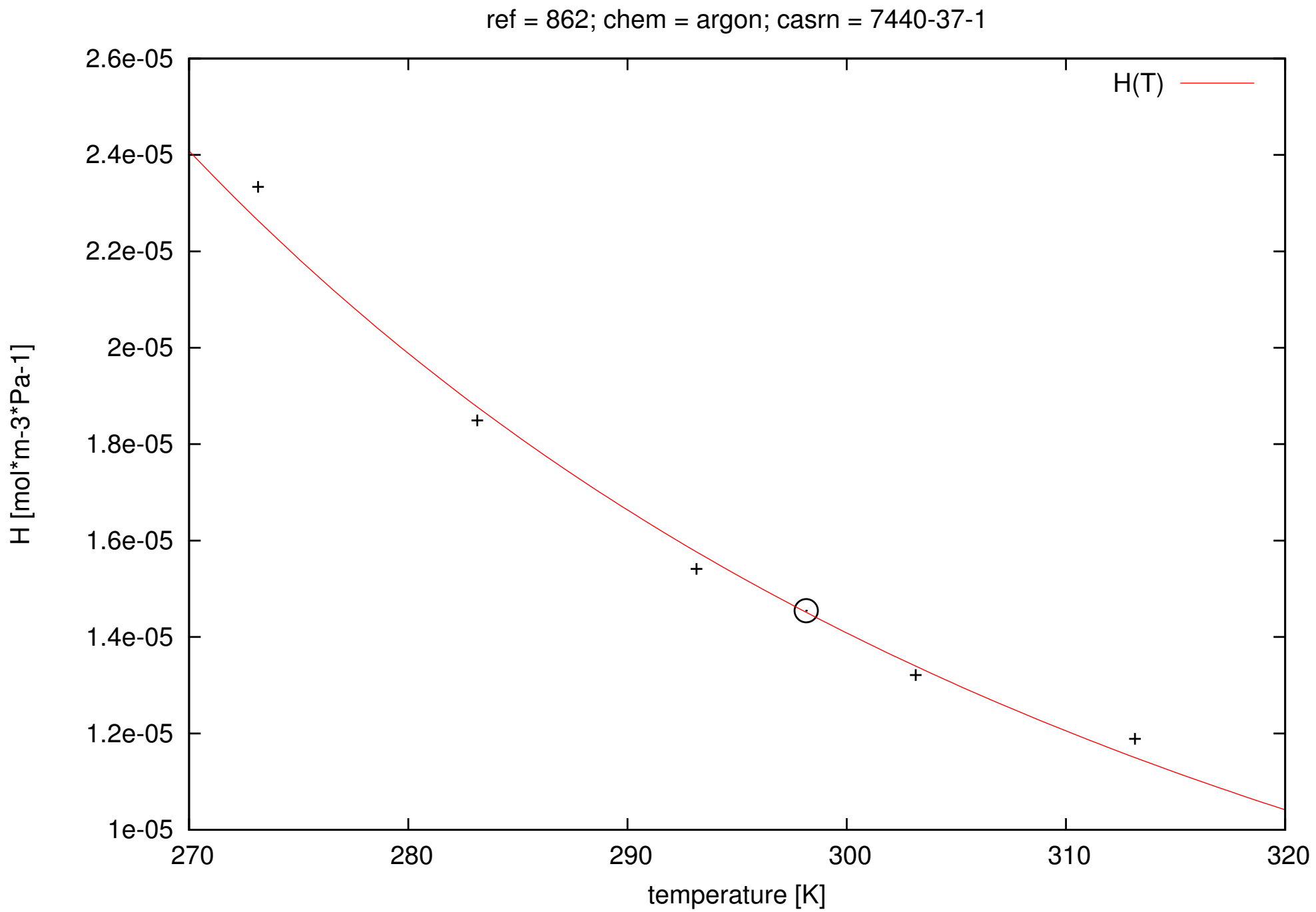

ref = 858; chem = chlorobenzene; casrn = 108-90-7
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
310
320
330
340
350
360

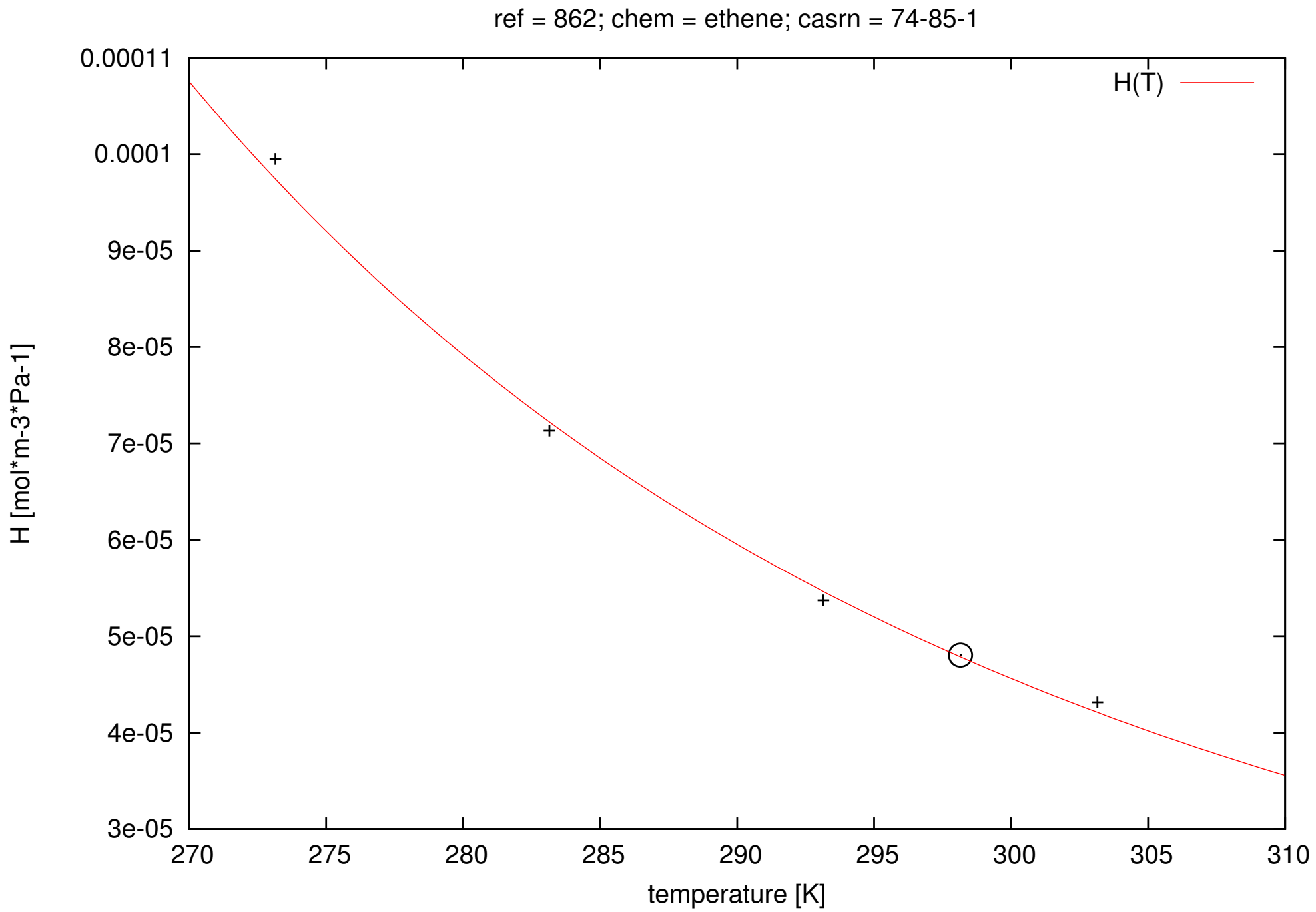

ref = 858; chem = benzene; casrn = 71-43-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0014
0.0013
0.0012
0.0011
0.001
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004
310
320
330
340
350
360

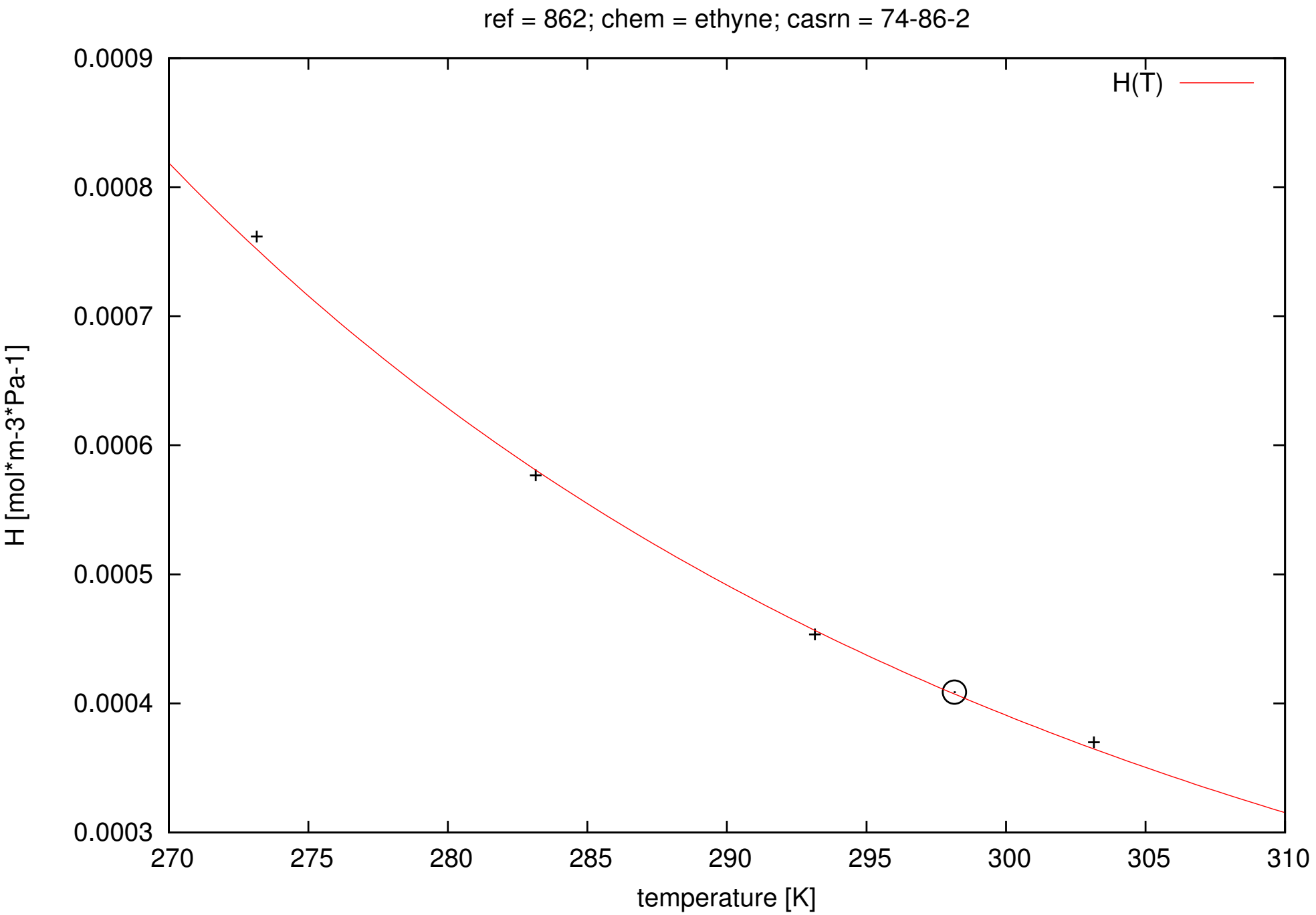

ref = 858; chem = 2-butanone; casrn = 78-93-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
310
320
330
340
350
360

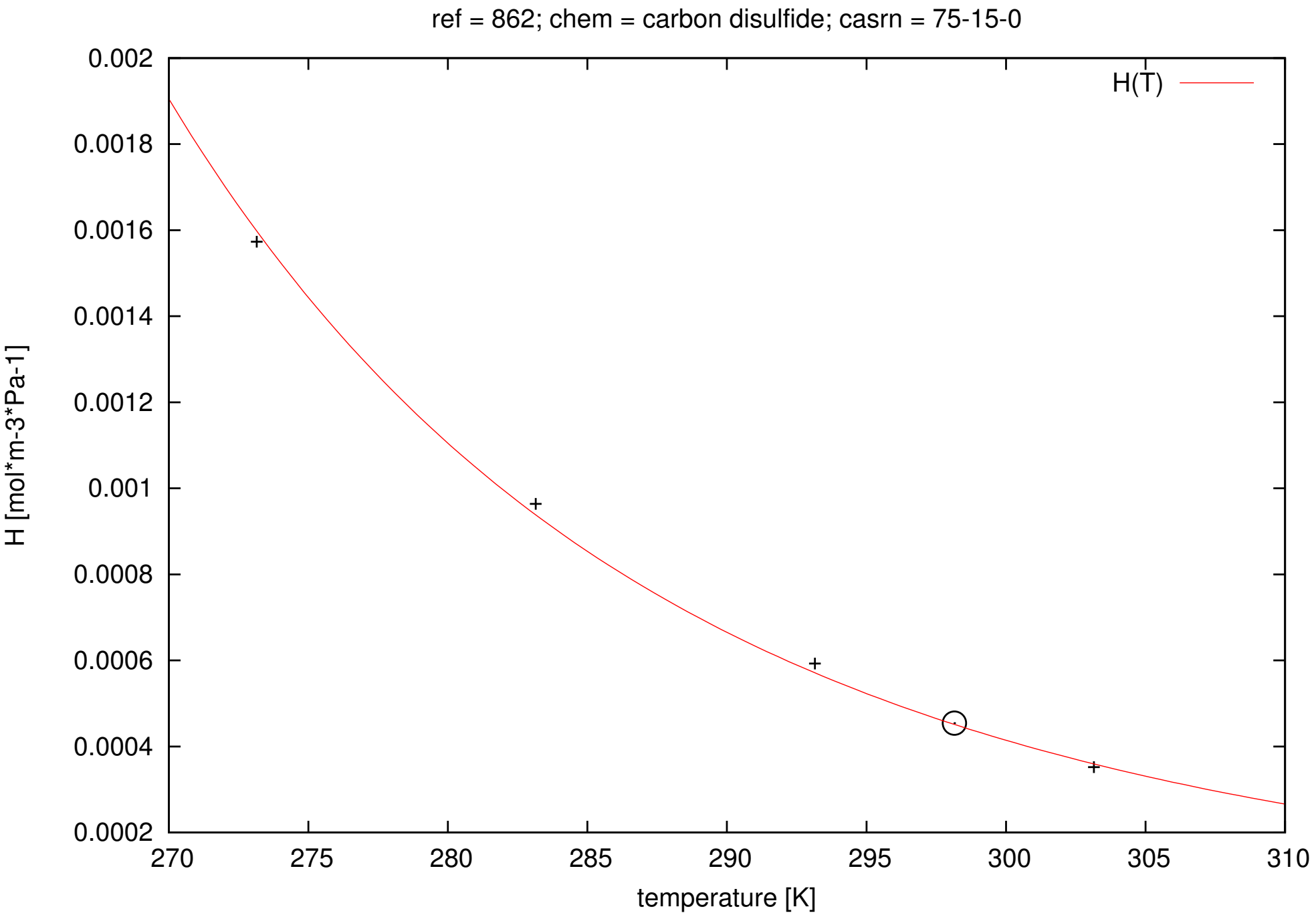

ref = 862; chem = carbon oxide sulfide; casrn = 463-58-1
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
270
275
280
285
290
295
300
305
310

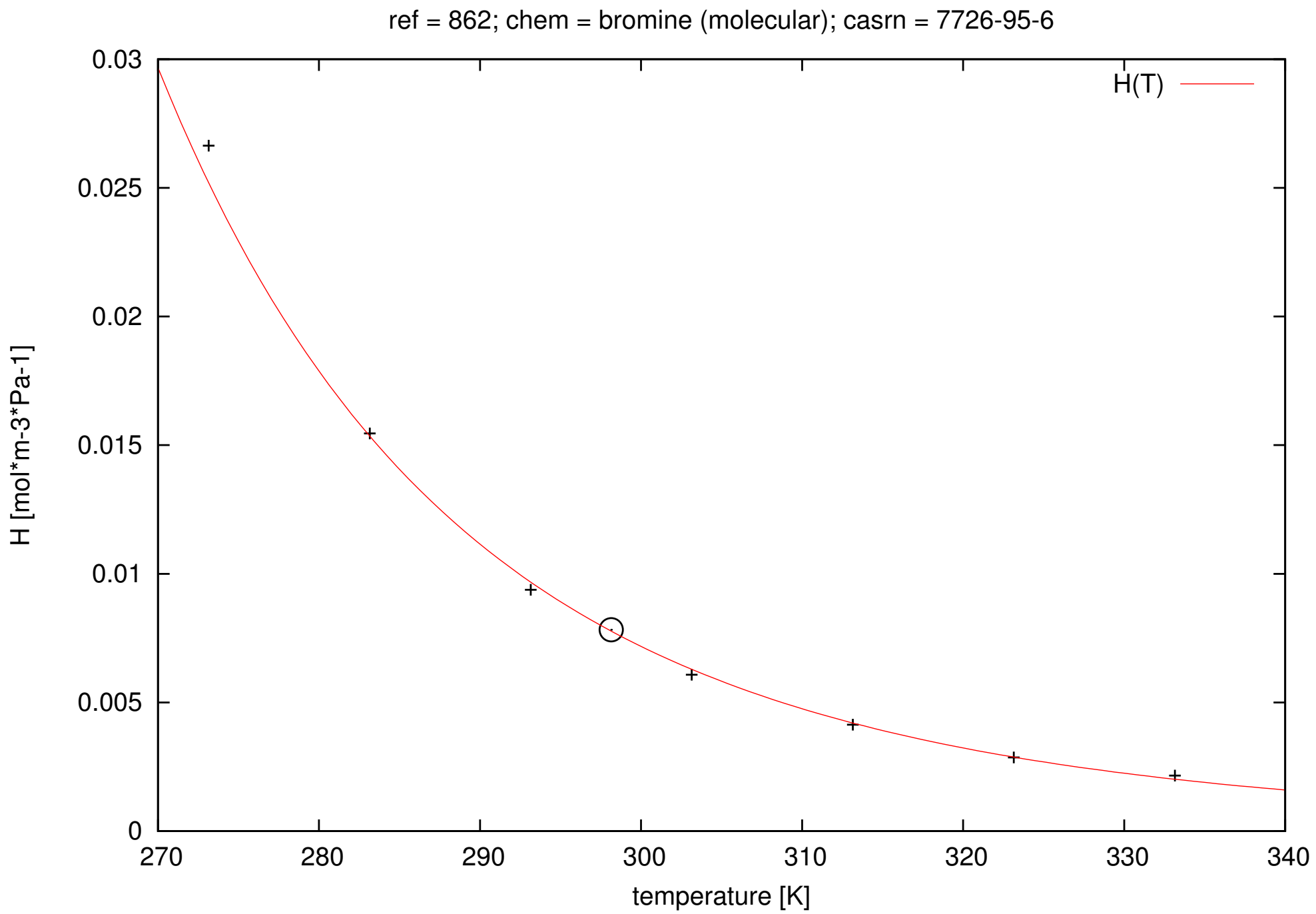

ref = 862; chem = trichloromethane; casrn = 67-66-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.012
0.01
0.008
0.006
0.004
0.002
0
270
275
280
285
290
295
300
305
310

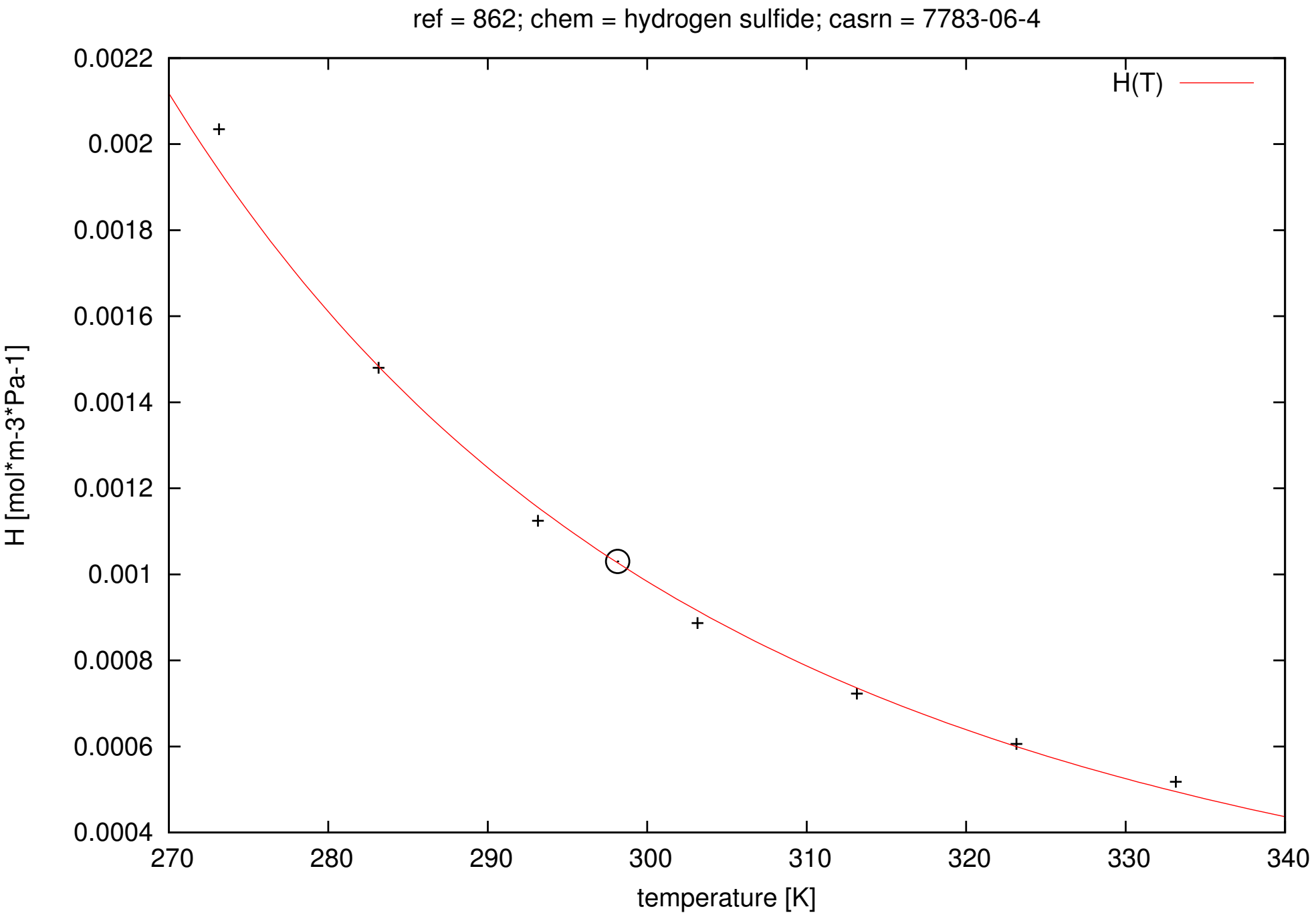

ref = 862; chem = argon; casrn = 7440-37-1
H(T)
H [mol*m-3*Pa-1]
temperature [K]
2.6e-05
2.4e-05
2.2e-05
2e-05
1.8e-05
1.6e-05
1.4e-05
1.2e-05
1e-05
270
280
290
300
310
320

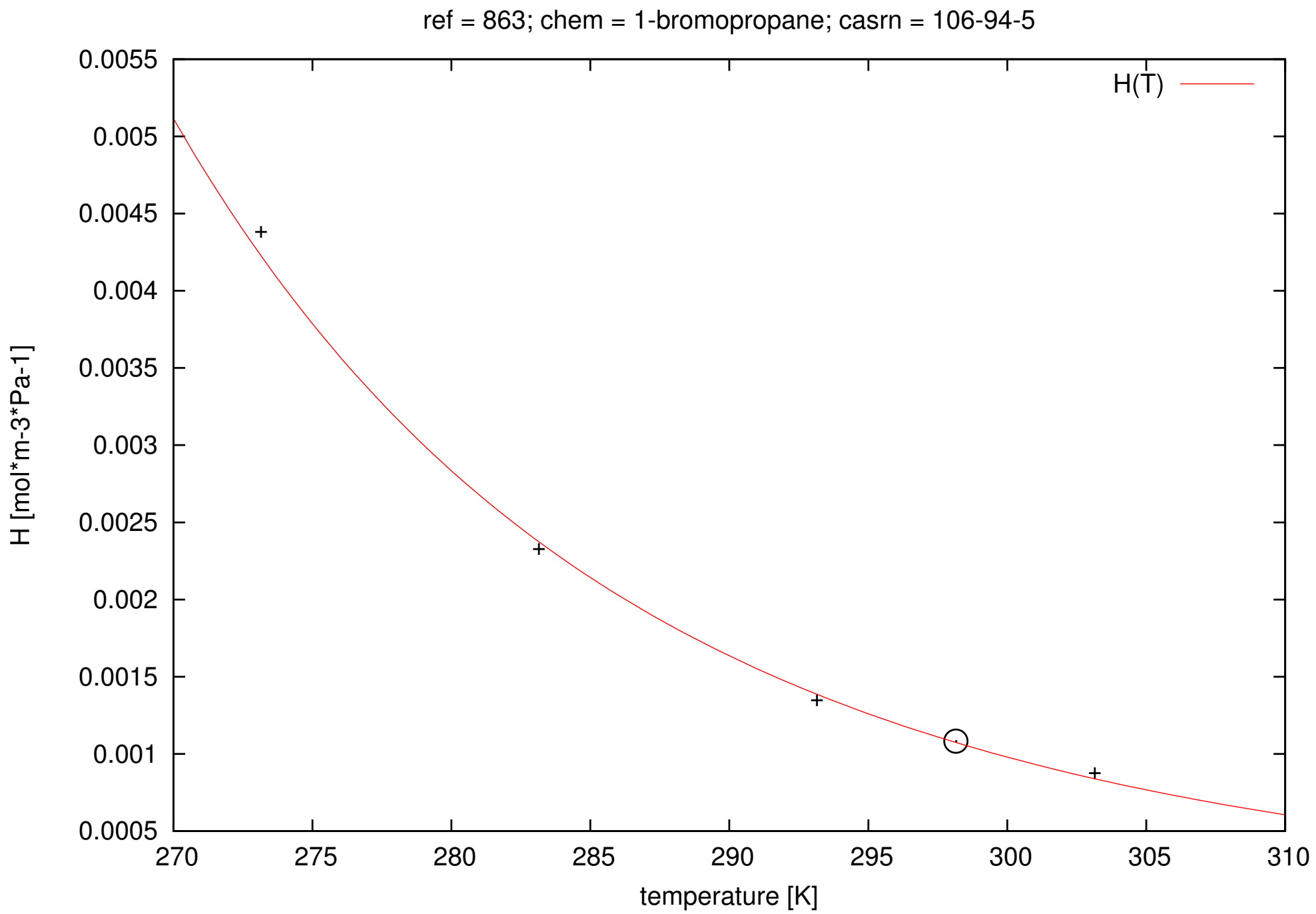

ref = 862; chem = ethene; casrn = 74-85-1
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.00011
0.0001
9e-05
8e-05
7e-05
6e-05
5e-05
4e-05
3e-05
270
275
280
285
290
295
300
305
310

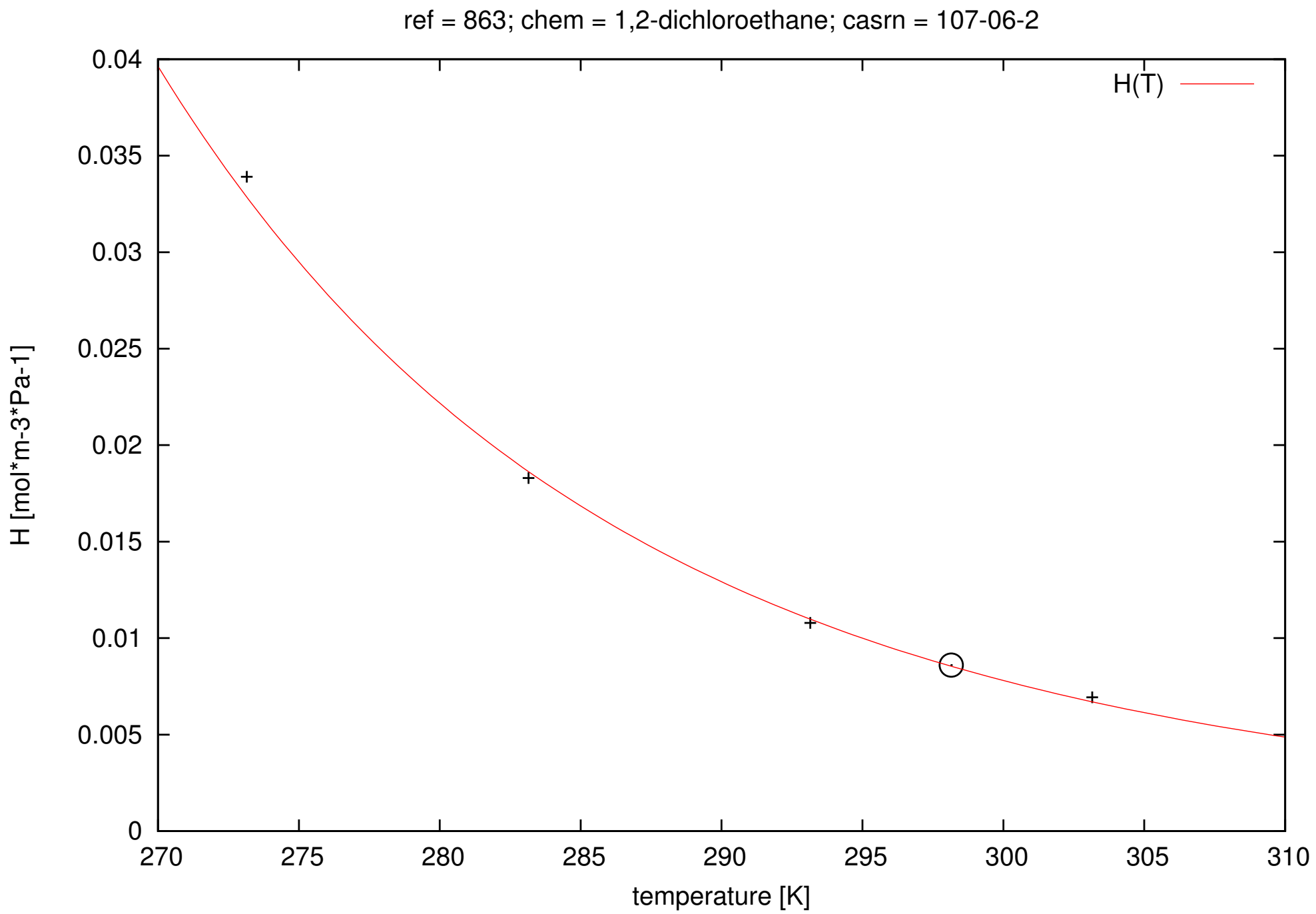

ref = 862; chem = ethyne; casrn = 74-86-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
270
275
280
285
290
295
300
305
310

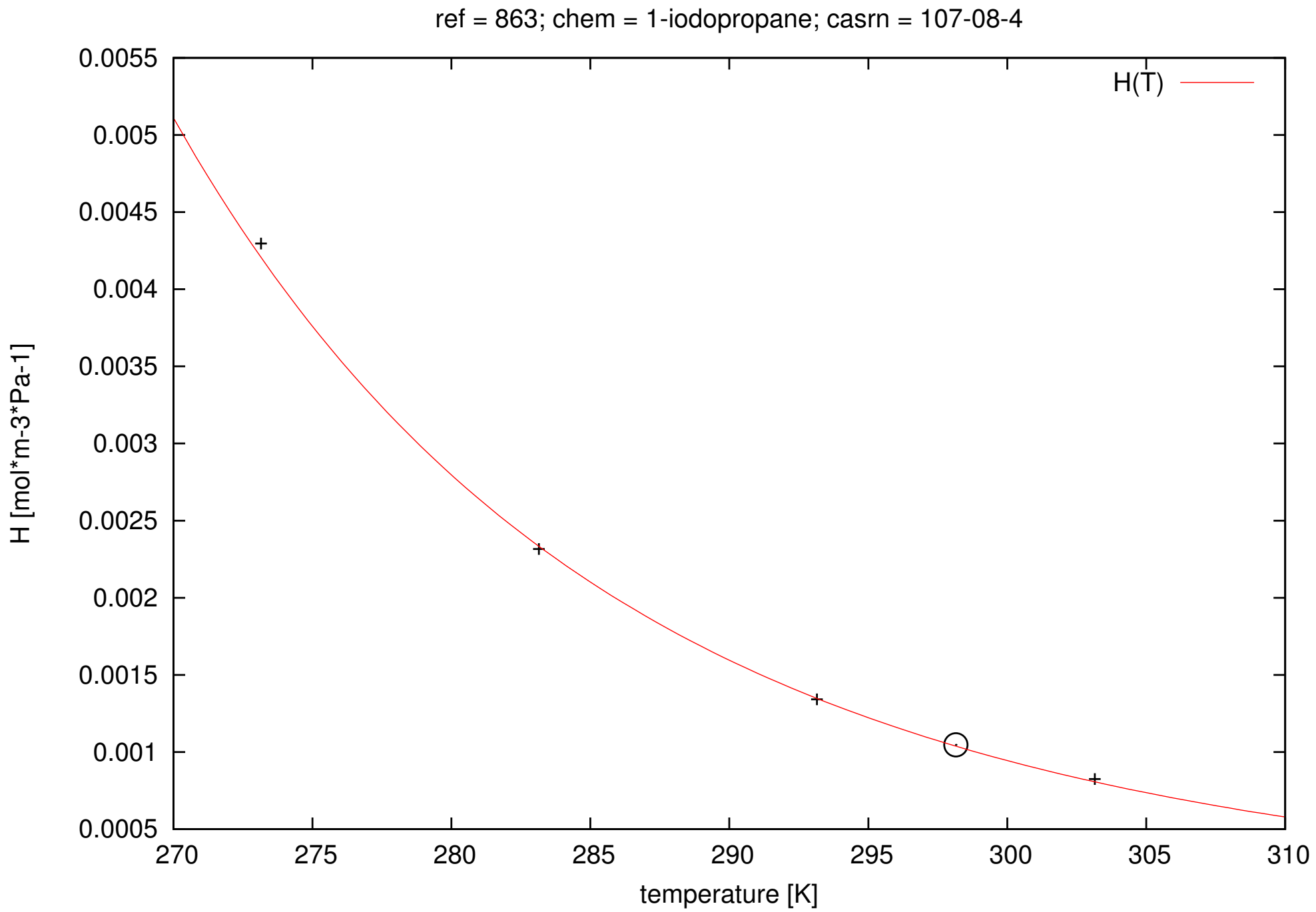

ref = 862; chem = carbon disulfide; casrn = 75-15-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
270
275
280
285
290
295
300
305
310

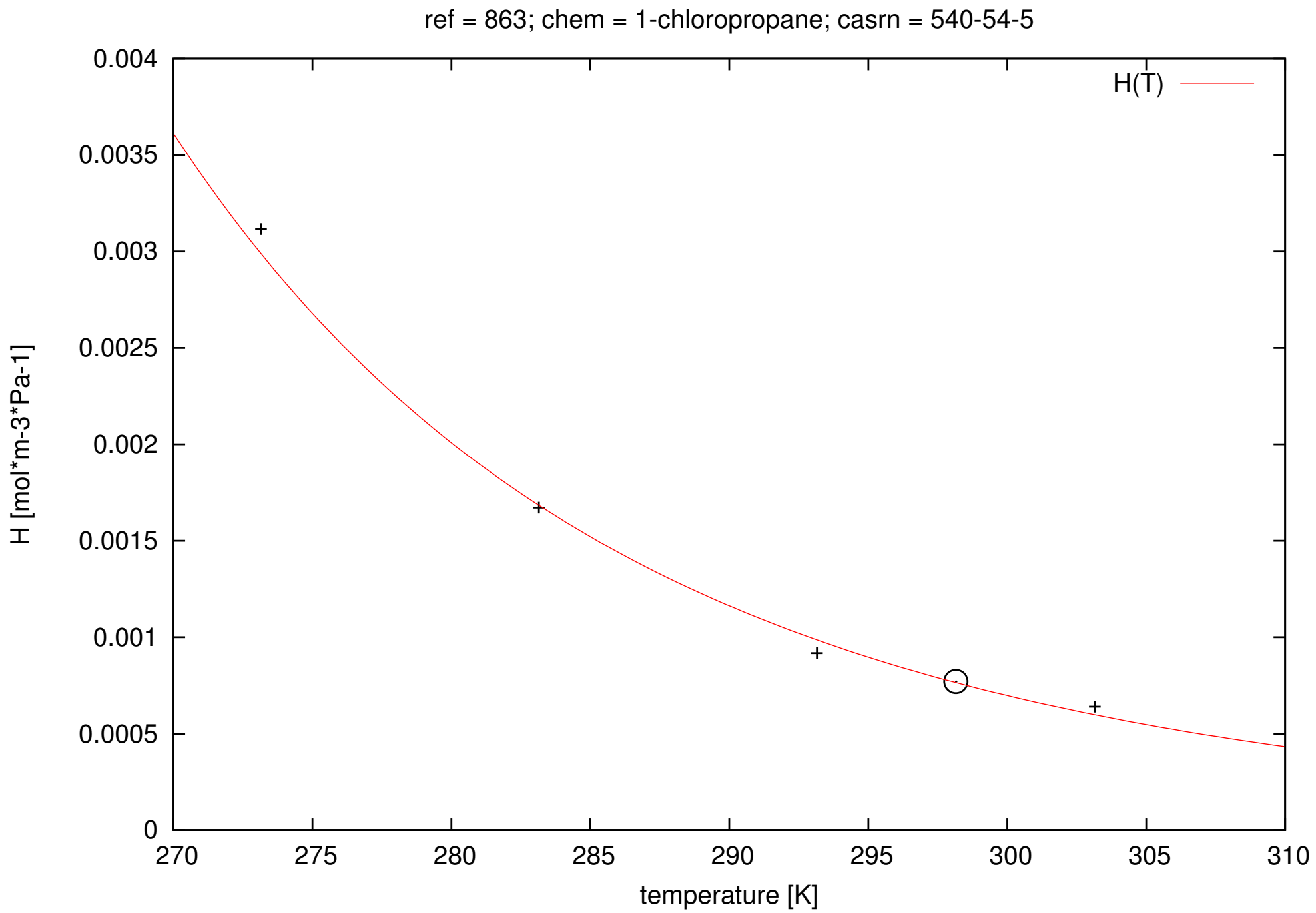

ref = 862; chem = bromine (molecular); casrn = 7726-95-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.03
0.025
0.02
0.015
0.01
0.005
0
270
280
290
300
310
320
330
340

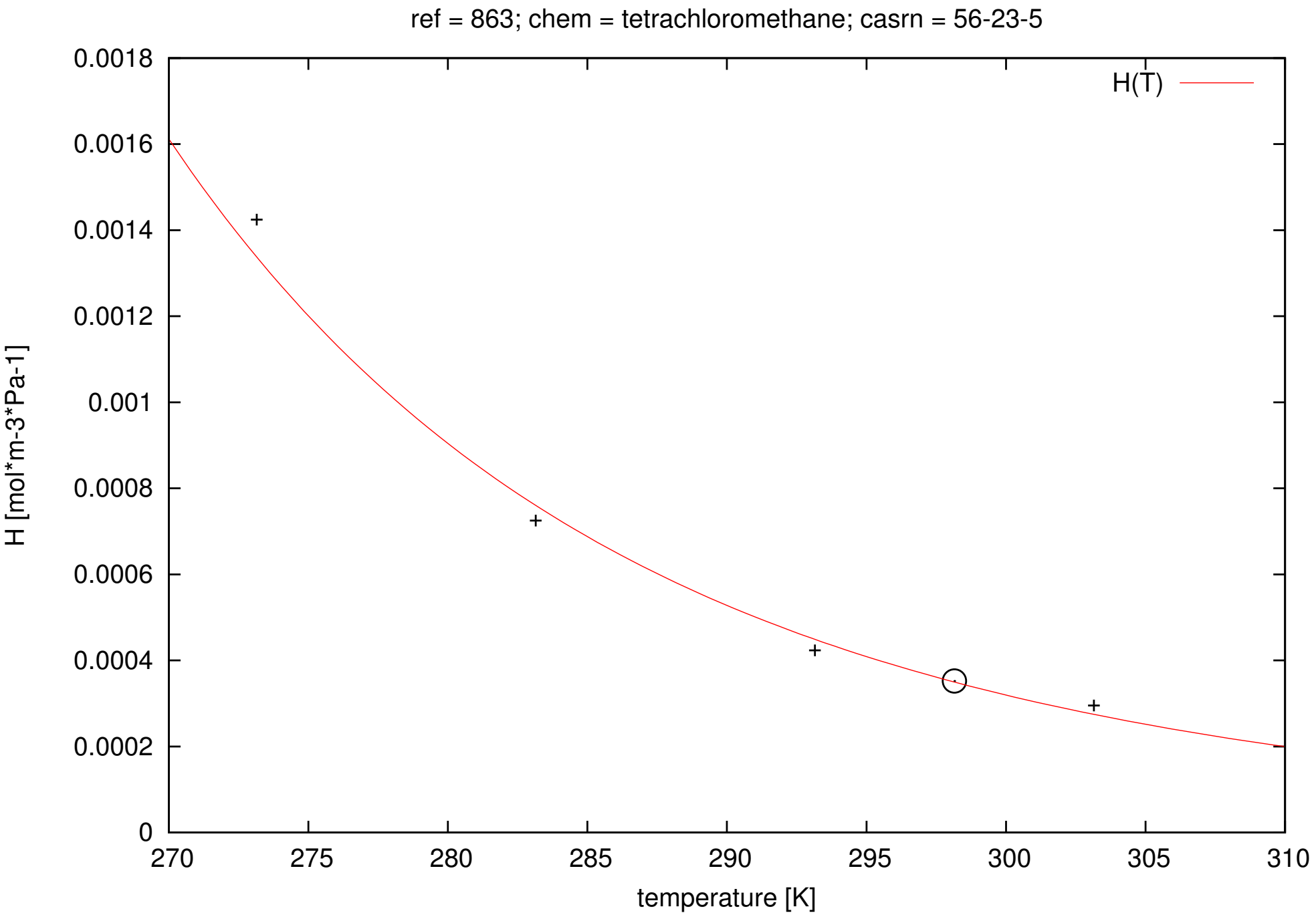

ref = 862; chem = hydrogen sulfide; casrn = 7783-06-4
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
270
280
290
300
310
320
330
340

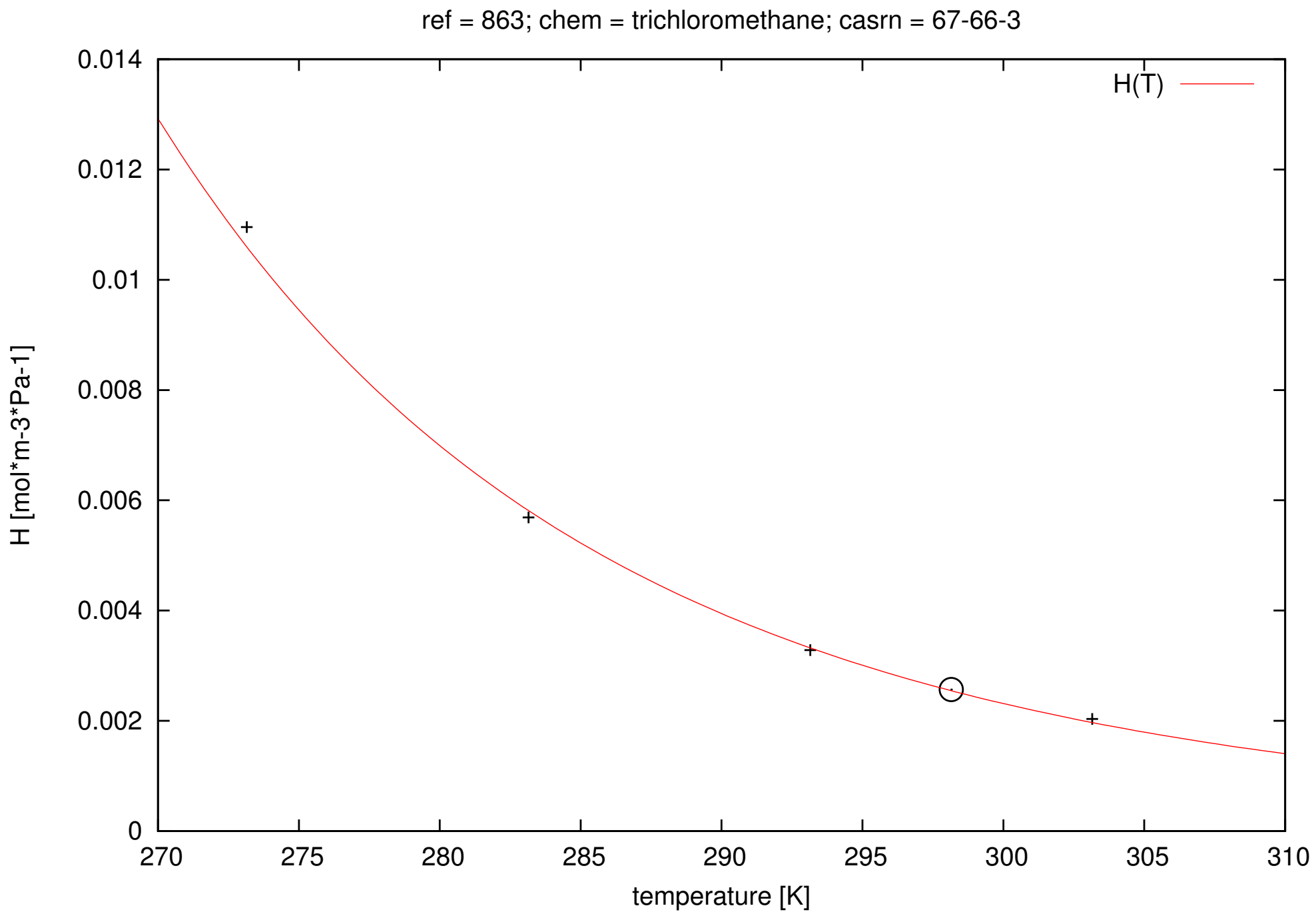

ref = 863; chem = 1-bromopropane; casrn = 106-94-5
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
270
275
280
285
290
295
300
305
310

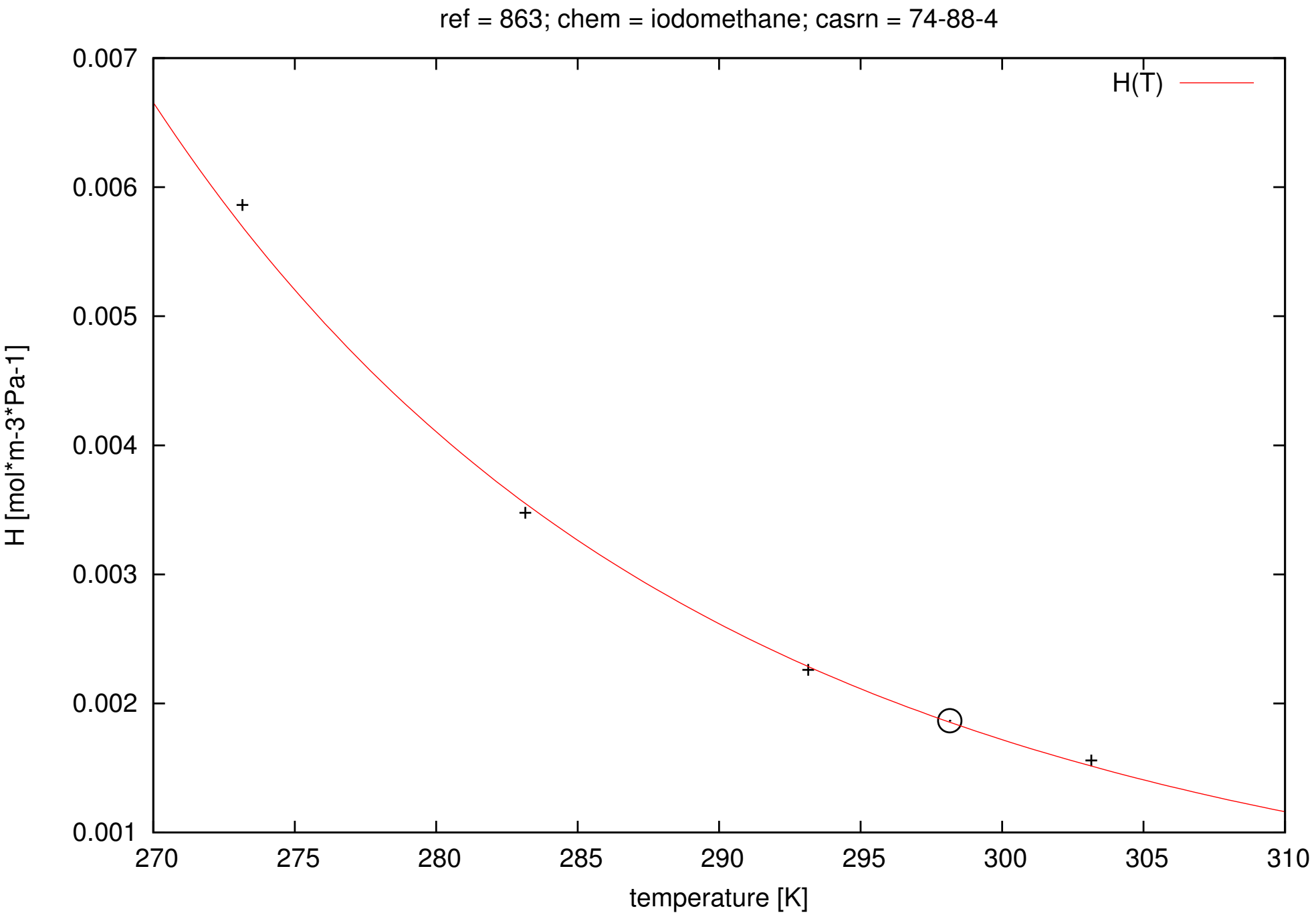

ref = 863; chem = 1,2-dichloroethane; casrn = 107-06-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
270
275
280
285
290
295
300
305
310

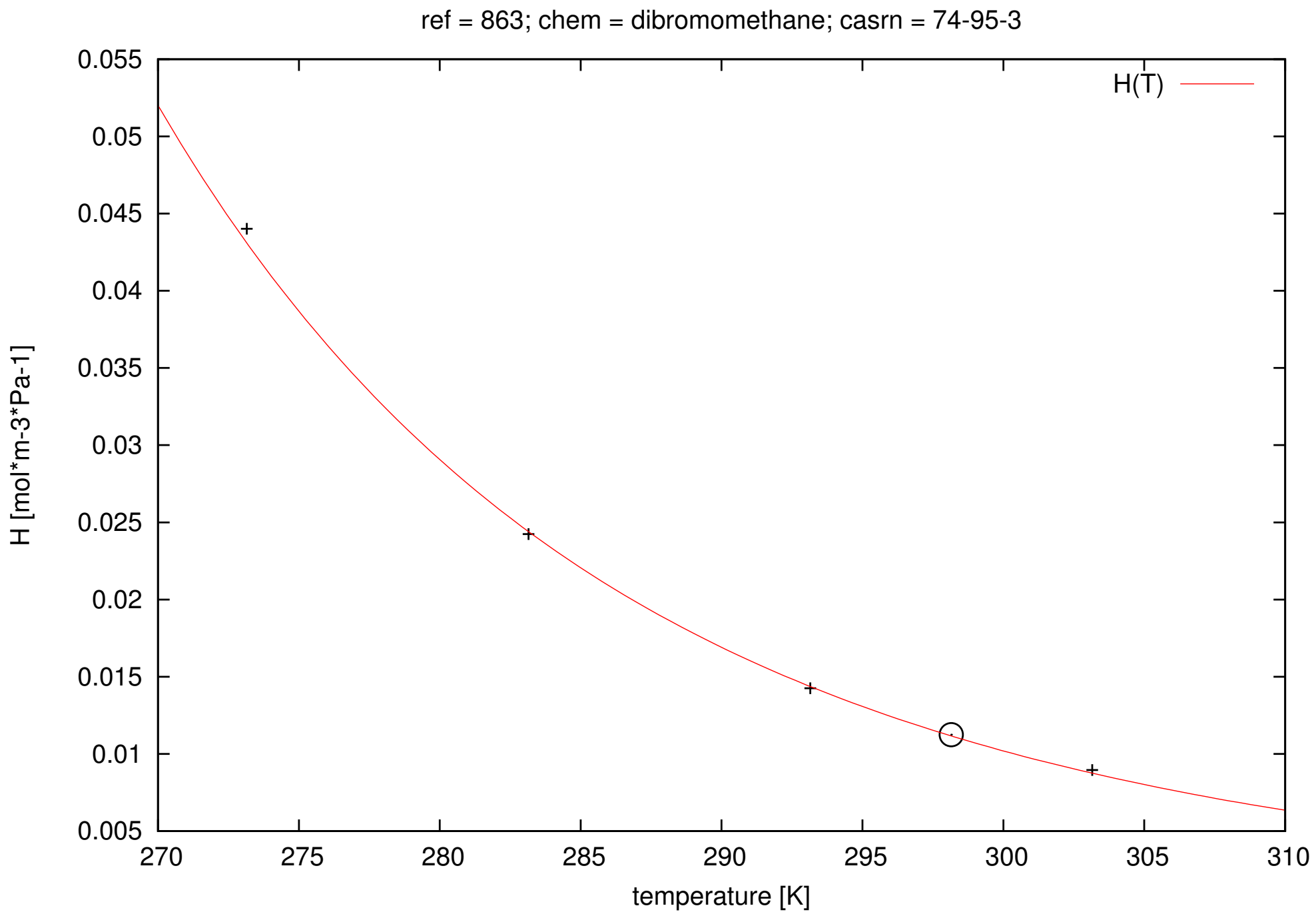

ref = 863; chem = 1-iodopropane; casrn = 107-08-4
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
270
275
280
285
290
295
300
305
310

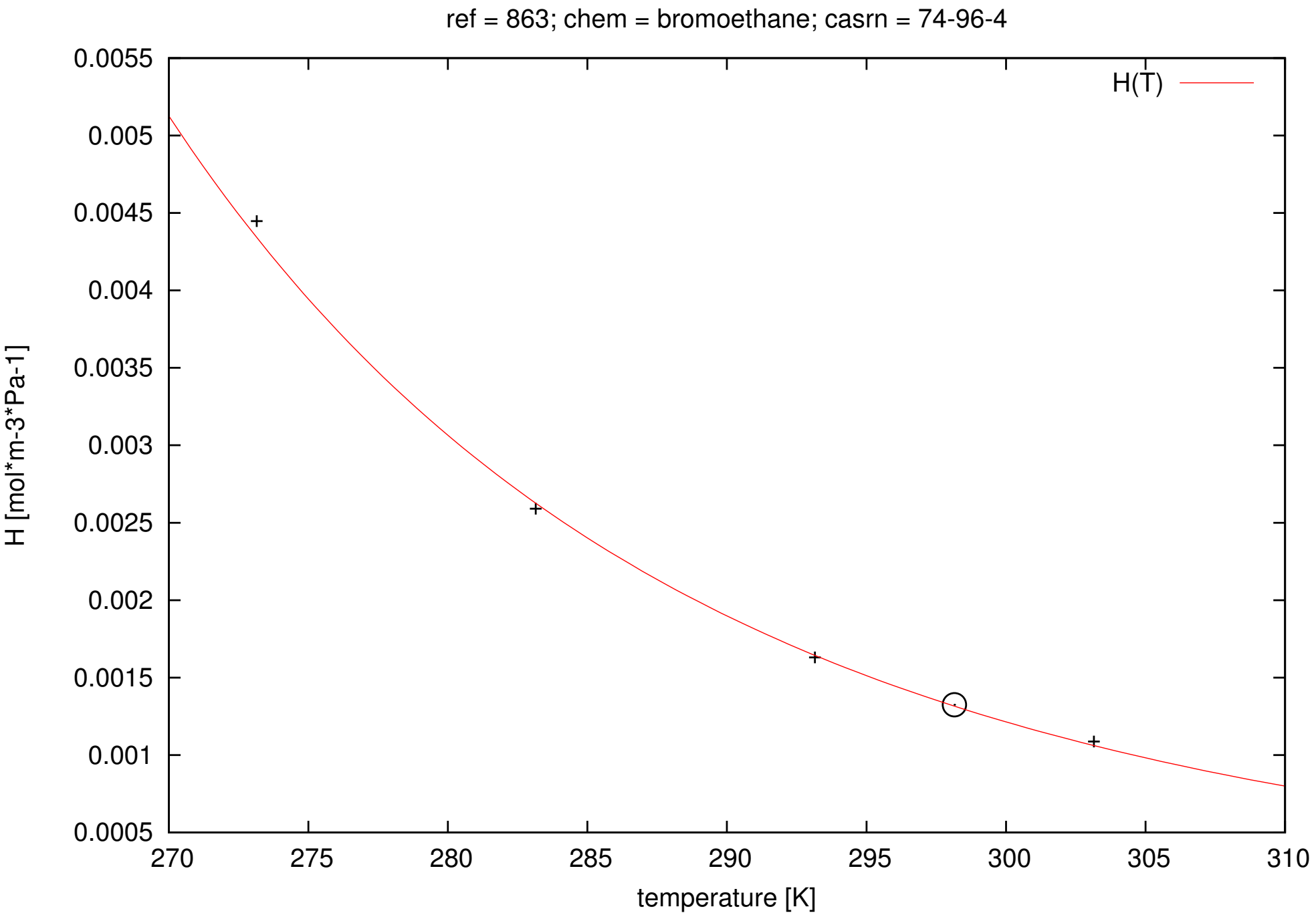

ref = 863; chem = 1-chloropropane; casrn = 540-54-5
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
270
275
280
285
290
295
300
305
310

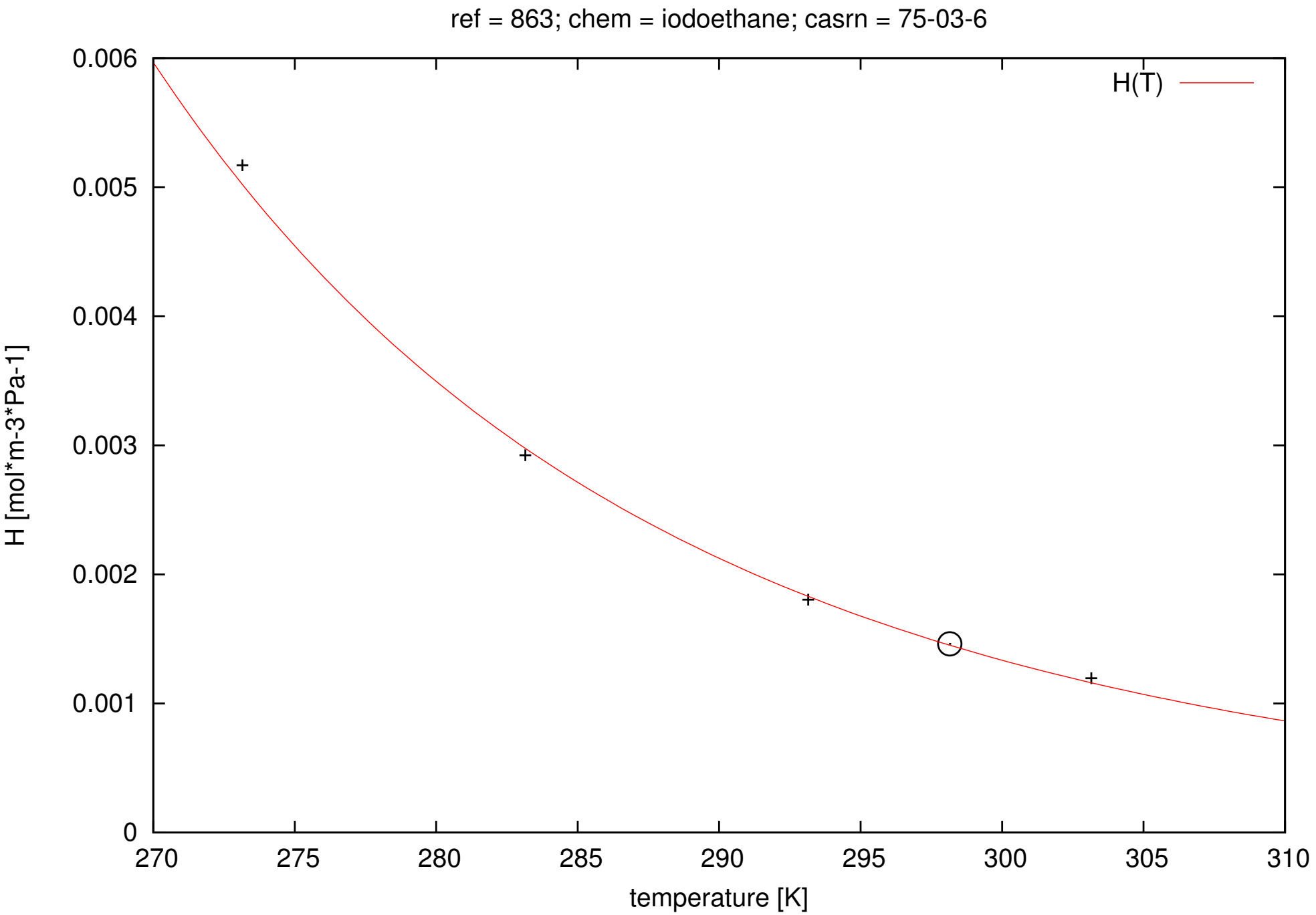

ref = 863; chem = tetrachloromethane; casrn = 56-23-5
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
270
275
280
285
290
295
300
305
310

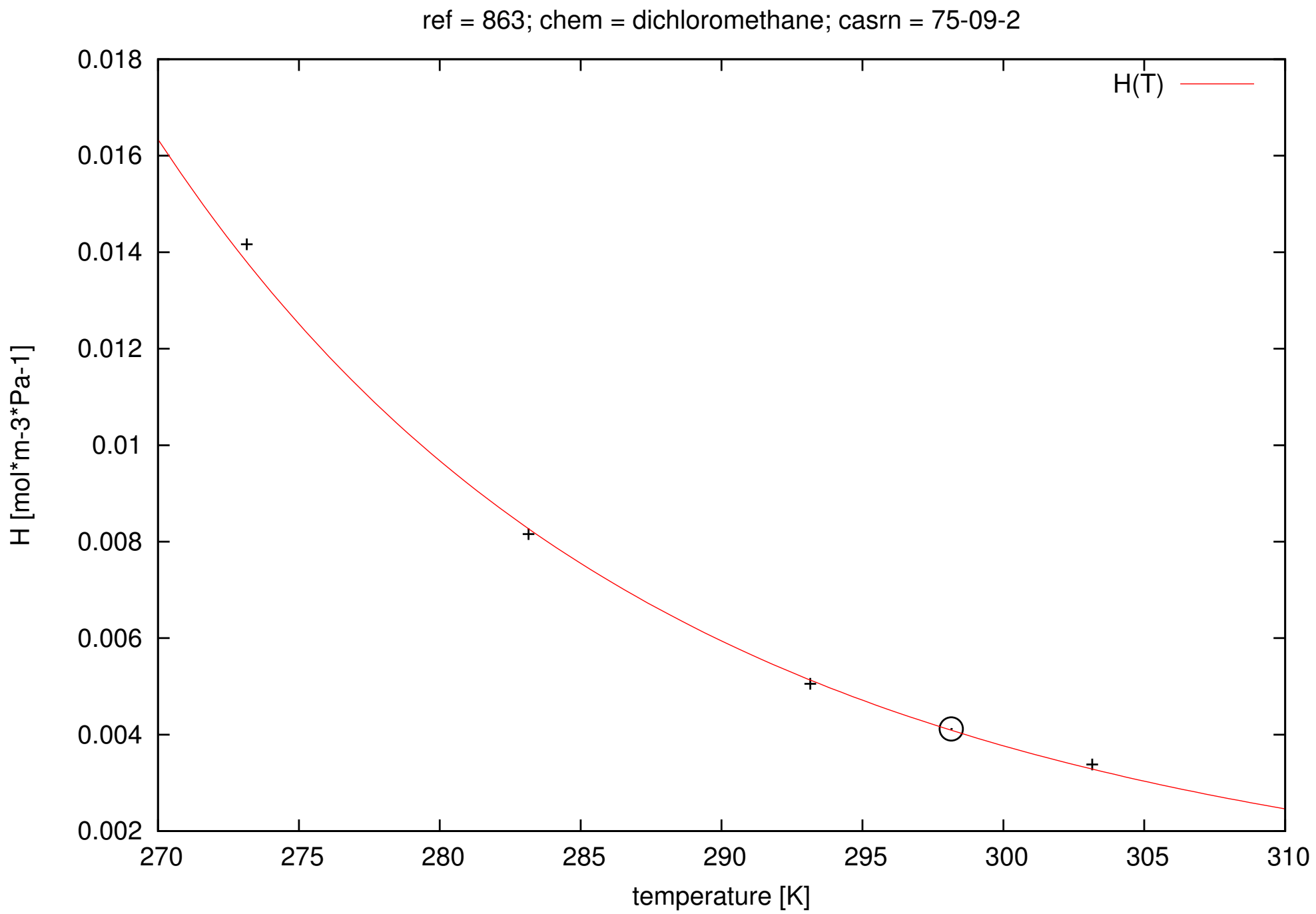

ref = 863; chem = trichloromethane; casrn = 67-66-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
270
275
280
285
290
295
300
305
310

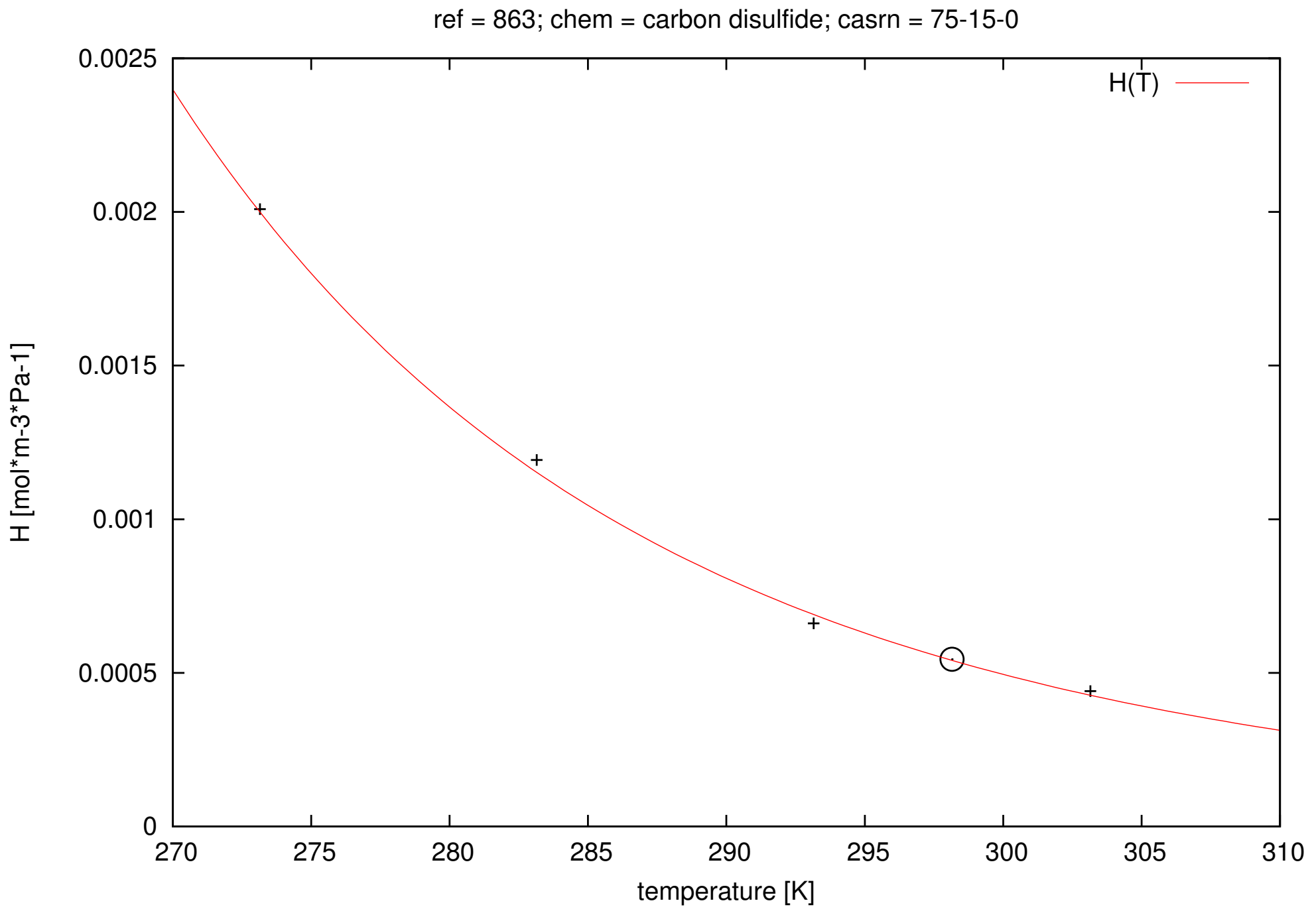

ref = 863; chem = iodomethane; casrn = 74-88-4
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.007
0.006
0.005
0.004
0.003
0.002
0.001
270
275
280
285
290
295
300
305
310

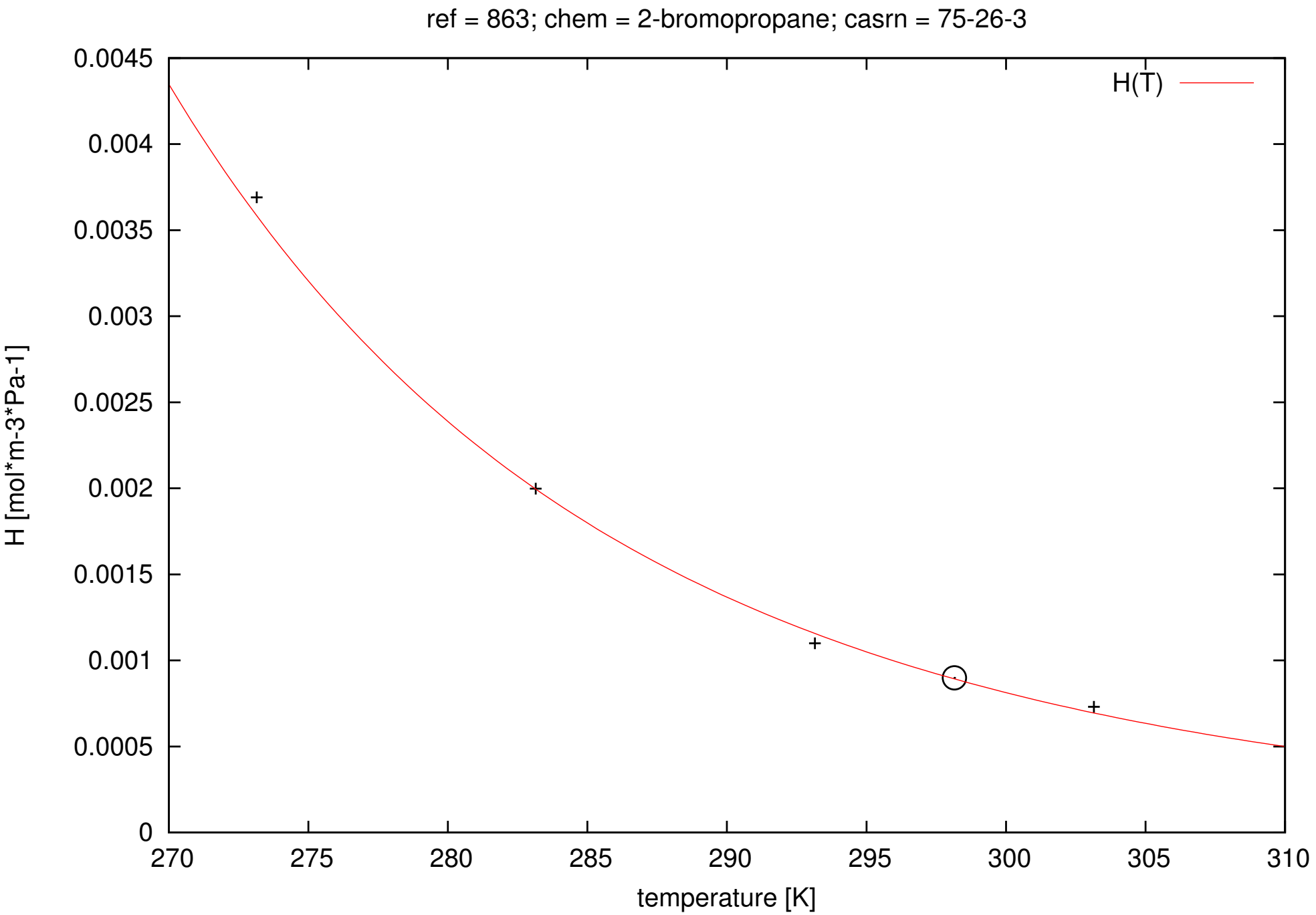

ref = 863; chem = dibromomethane; casrn = 74-95-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
270
275
280
285
290
295
300
305
310

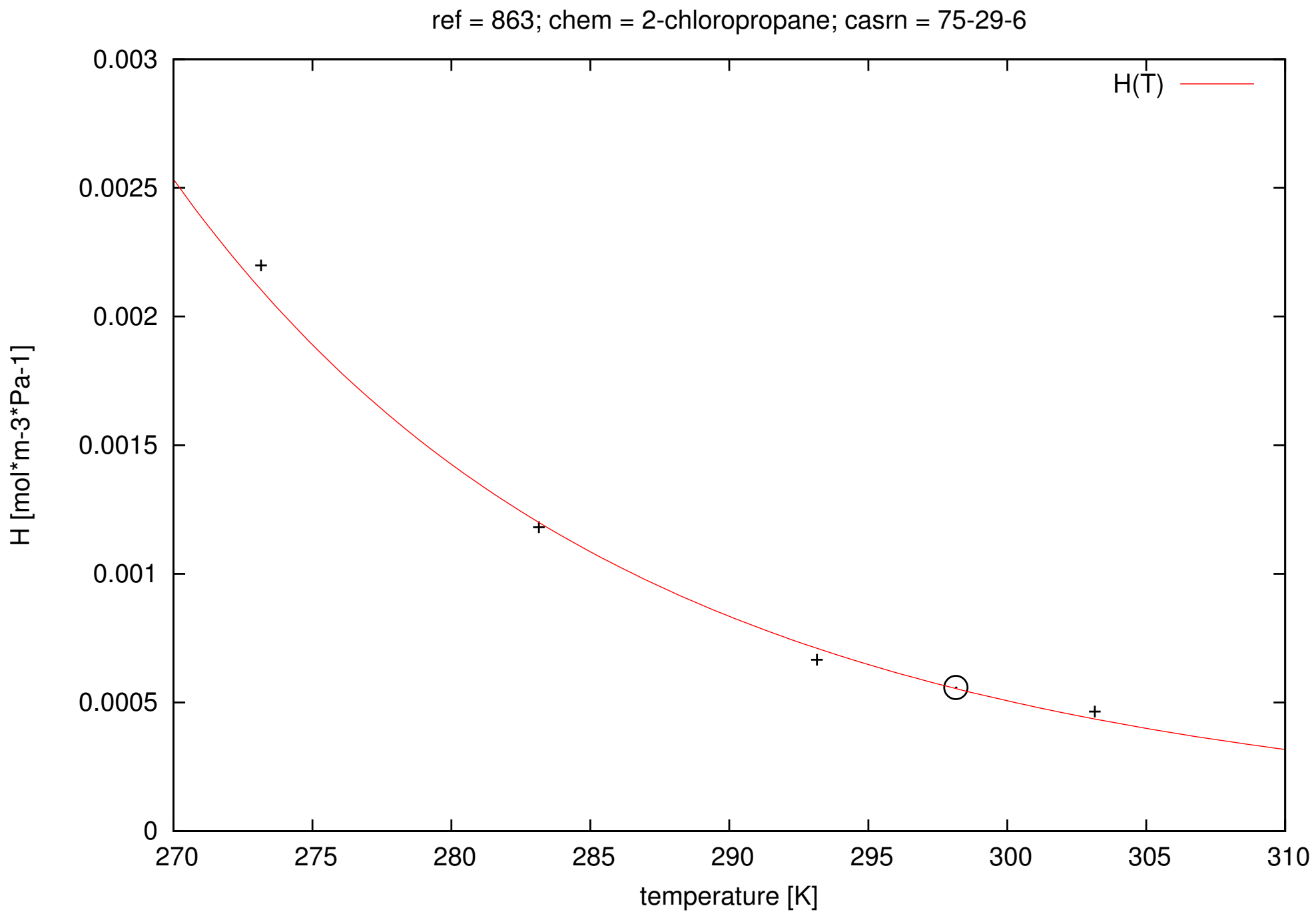

ref = 863; chem = bromoethane; casrn = 74-96-4
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
270
275
280
285
290
295
300
305
310

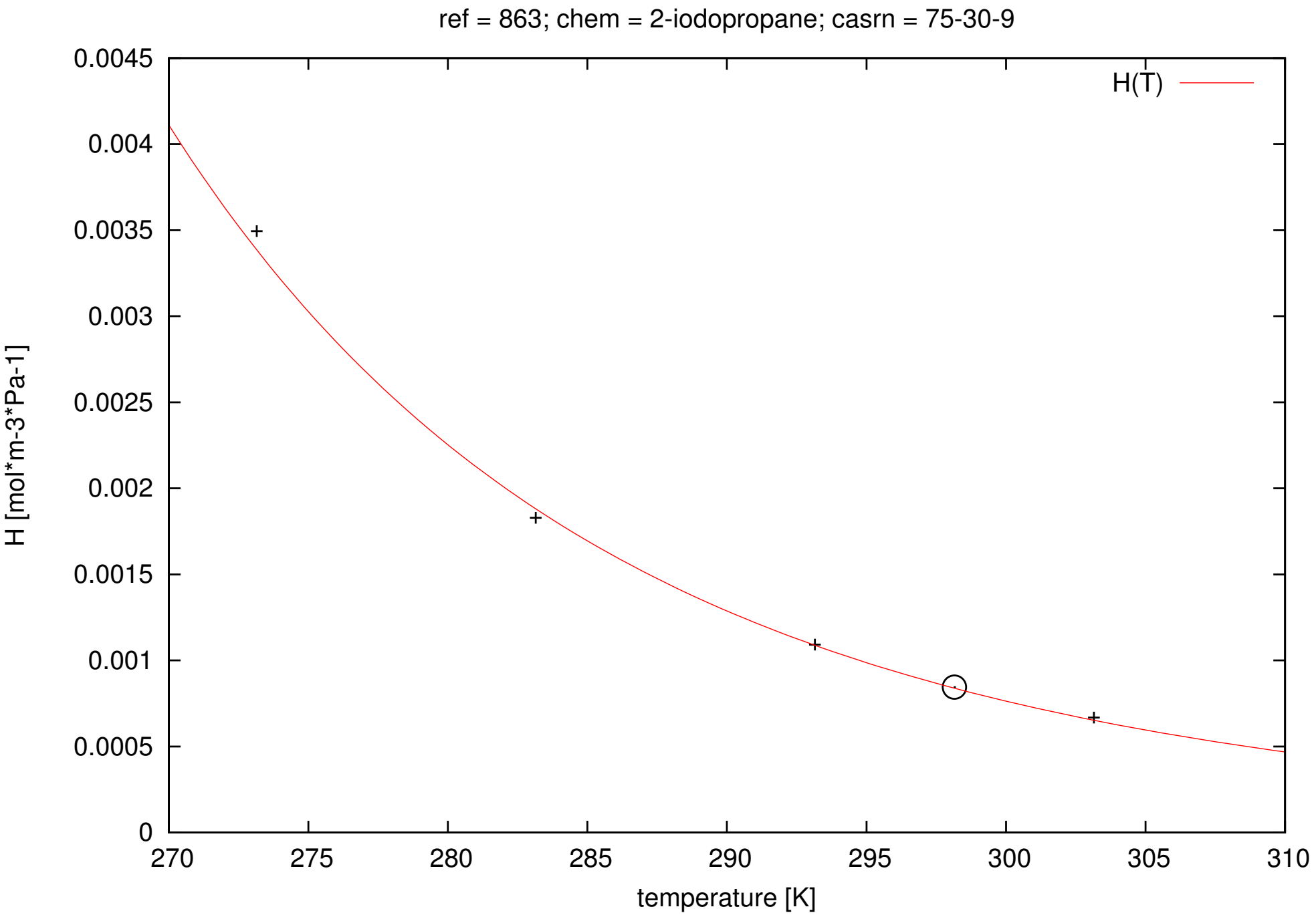

ref = 863; chem = iodoethane; casrn = 75-03-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.006
0.005
0.004
0.003
0.002
0.001
0
270
275
280
285
290
295
300
305
310

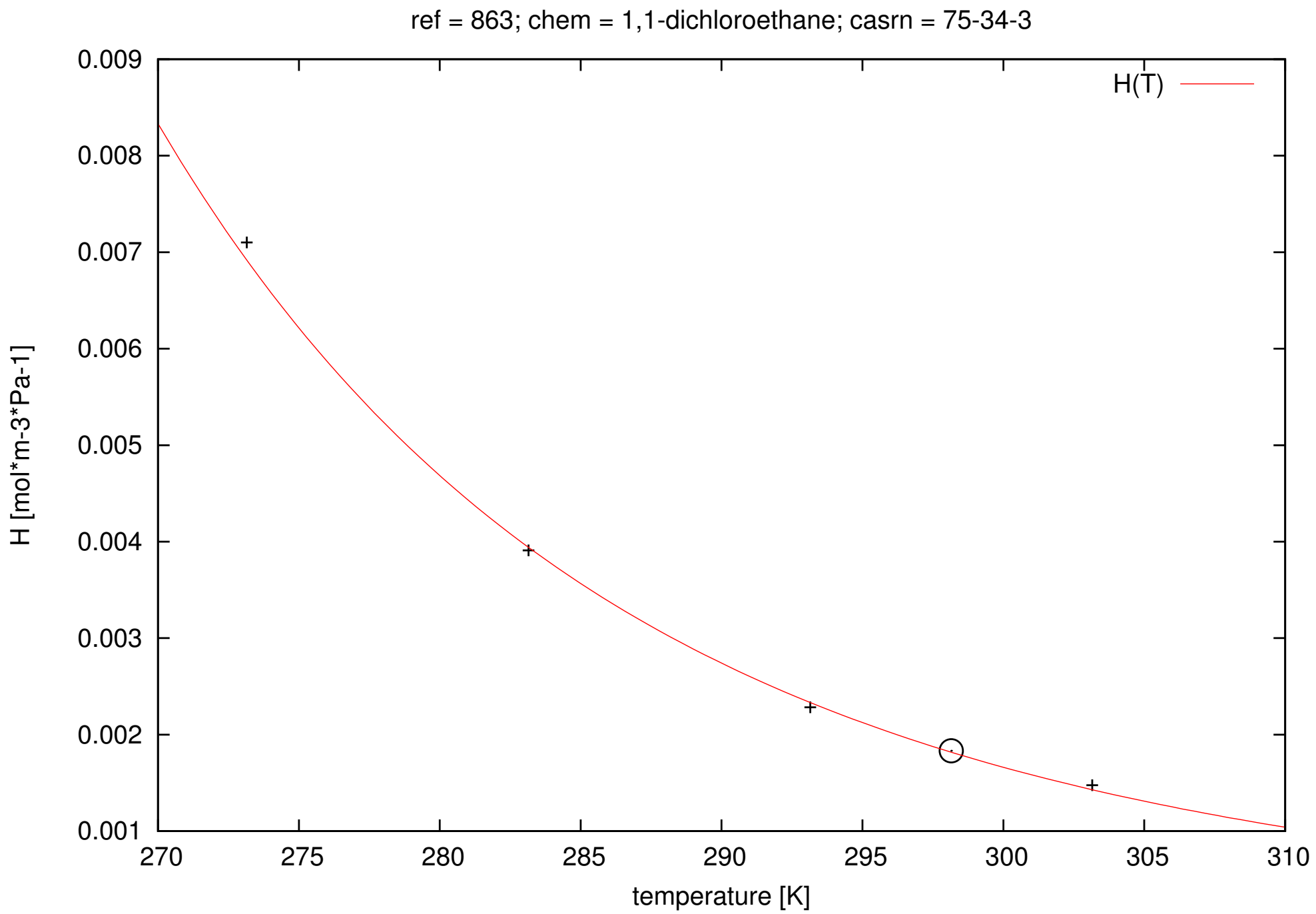

ref = 863; chem = dichloromethane; casrn = 75-09-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
270
275
280
285
290
295
300
305
310

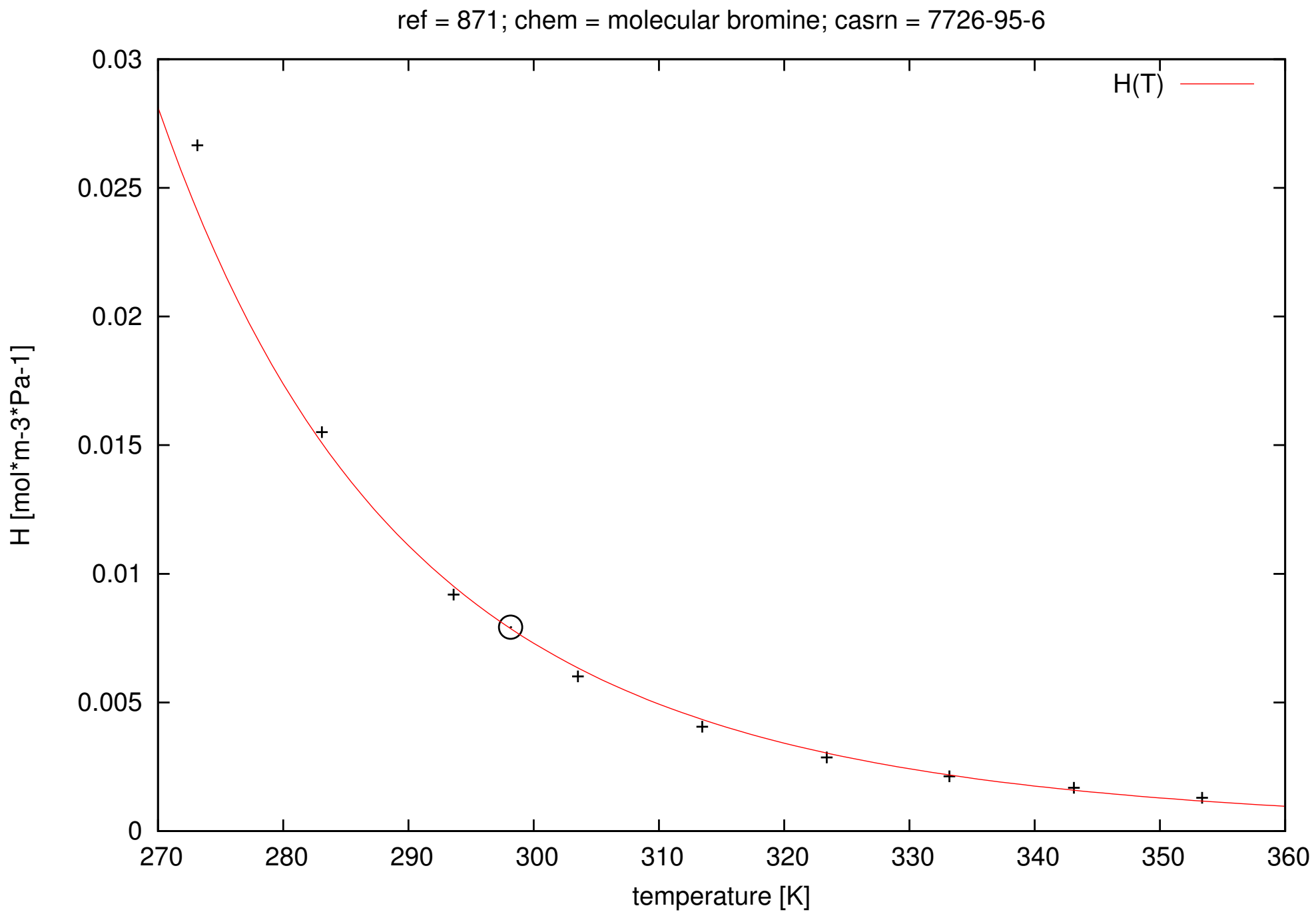

ref = 863; chem = carbon disulfide; casrn = 75-15-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0025
0.002
0.0015
0.001
0.0005
0
270
275
280
285
290
295
300
305
310

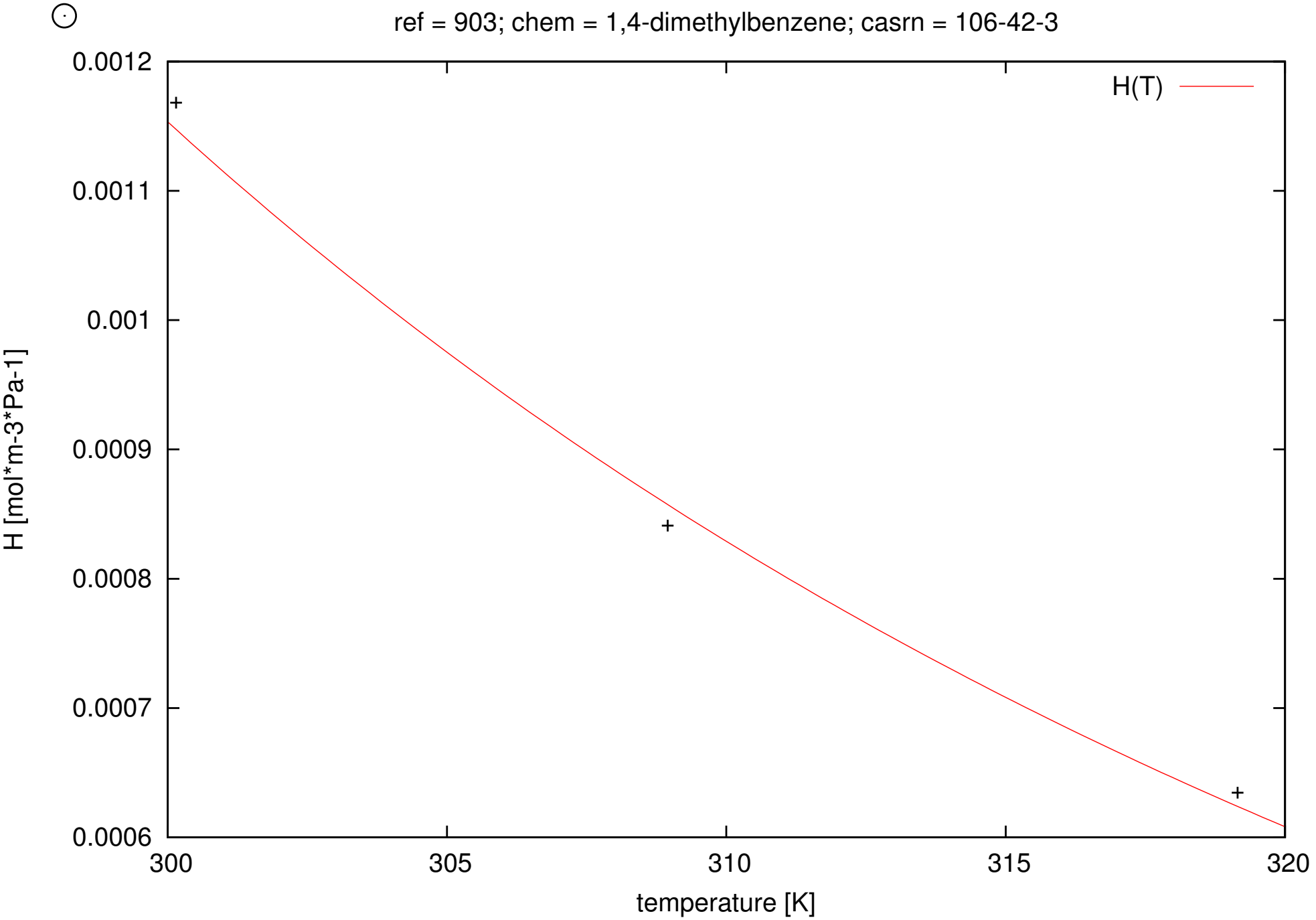

ref = 863; chem = 2-bromopropane; casrn = 75-26-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
270
275
280
285
290
295
300
305
310

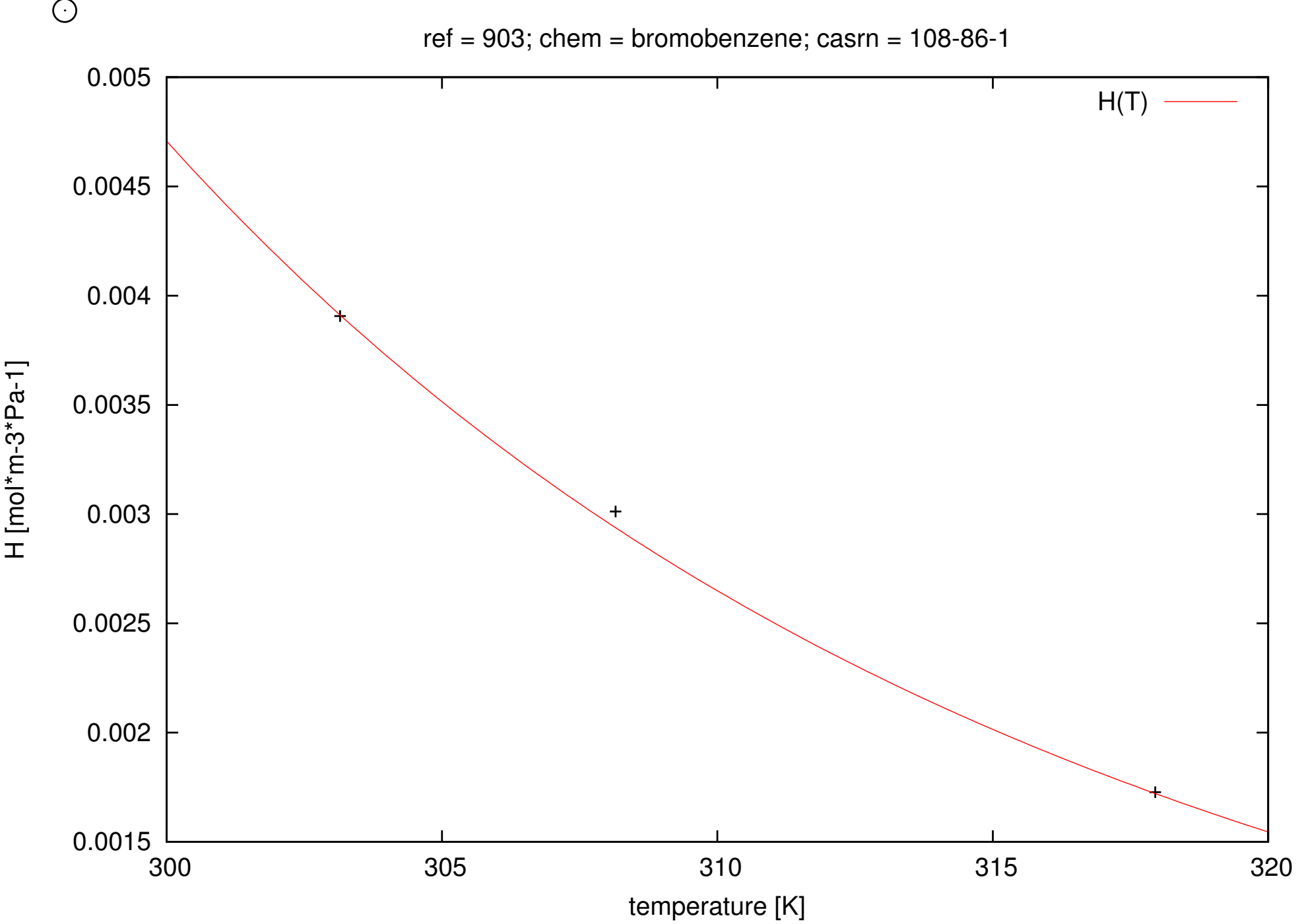

ref = 863; chem = 2-chloropropane; casrn = 75-29-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
270
275
280
285
290
295
300
305
310

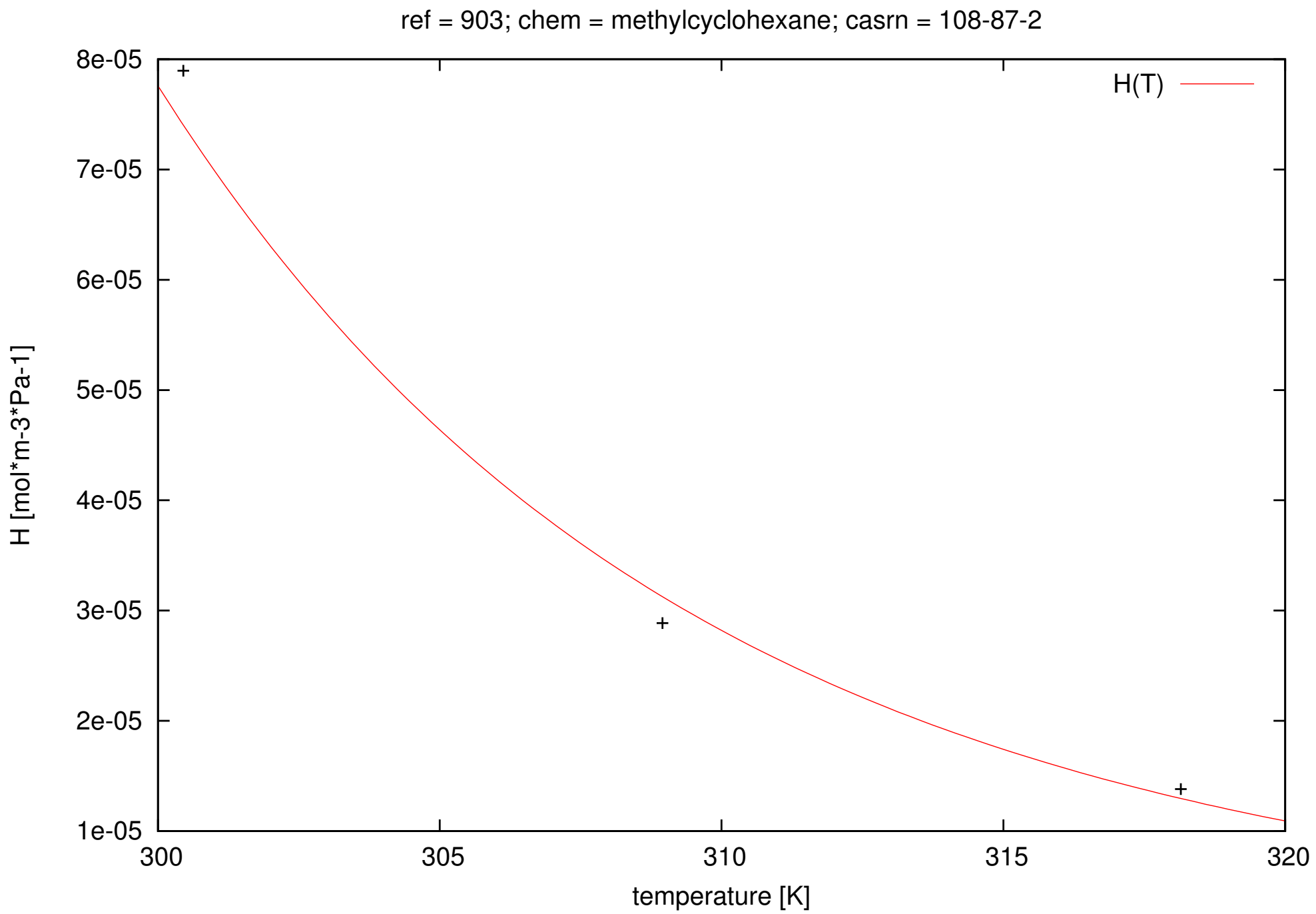

ref = 863; chem = 2-iodopropane; casrn = 75-30-9
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
270
275
280
285
290
295
300
305
310

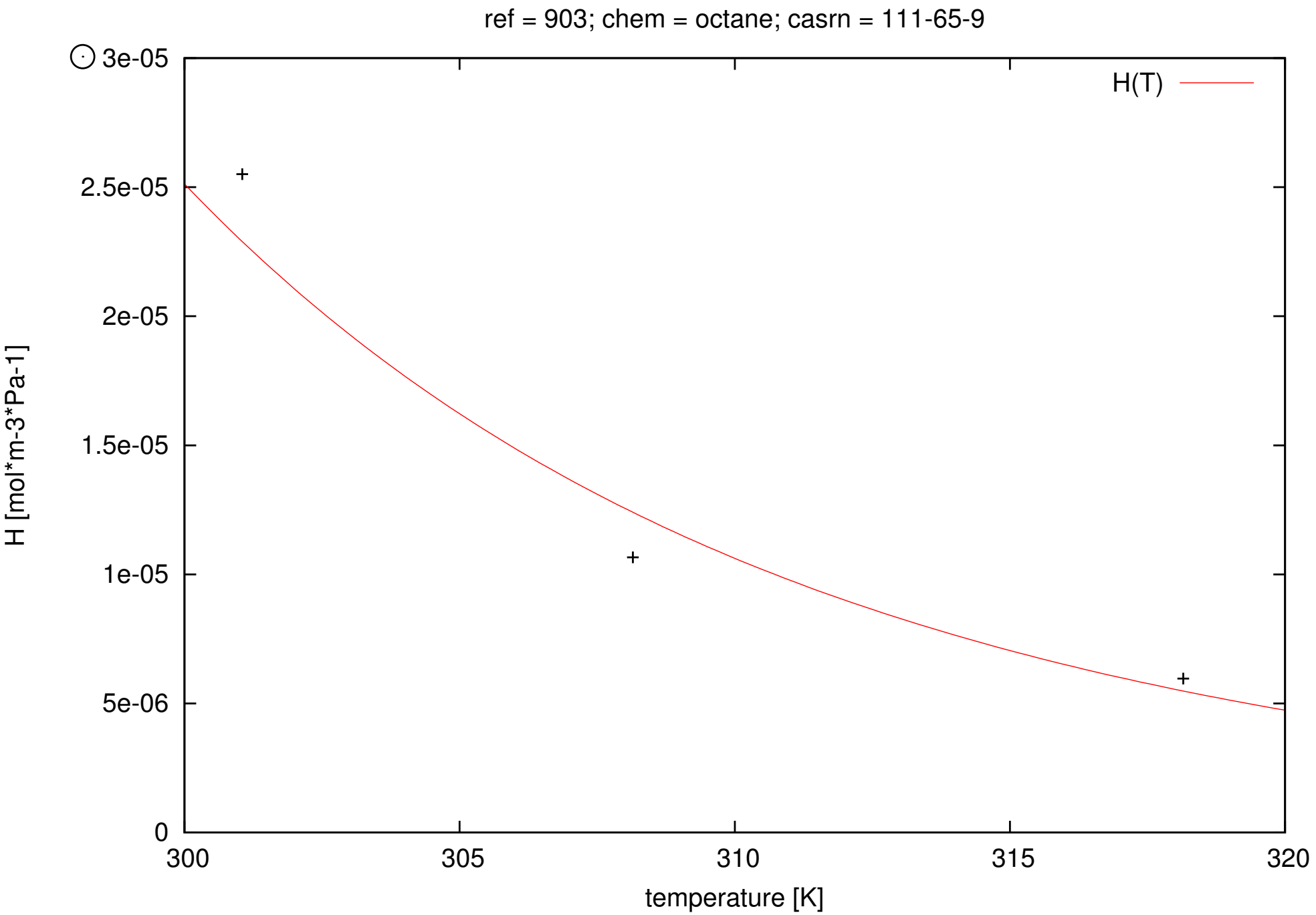

ref = 863; chem = 1,1-dichloroethane; casrn = 75-34-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
270
275
280
285
290
295
300
305
310

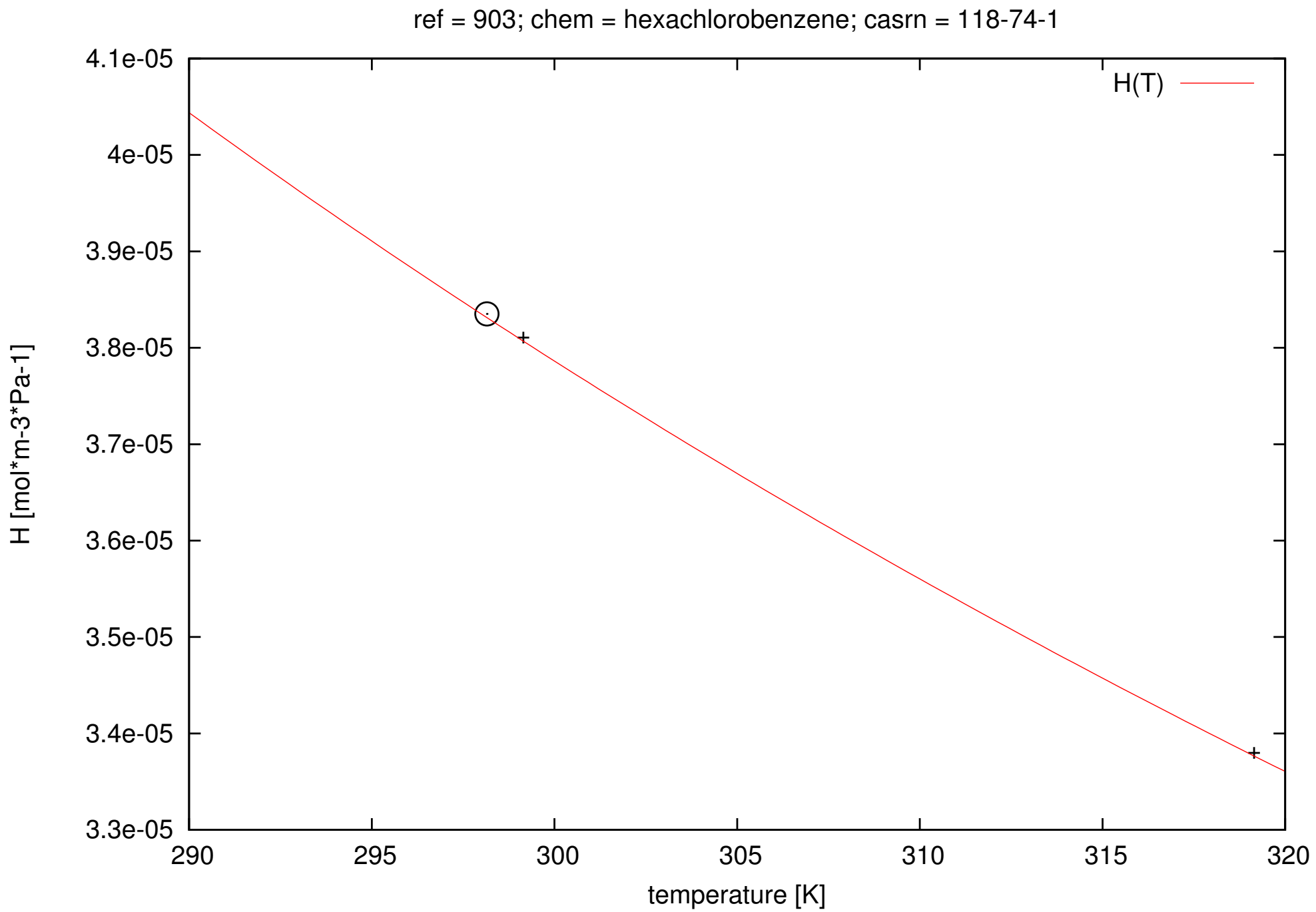

ref = 871; chem = molecular bromine; casrn = 7726-95-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.03
0.025
0.02
0.015
0.01
0.005
0
270
280
290
300
310
320
330
340
350
360

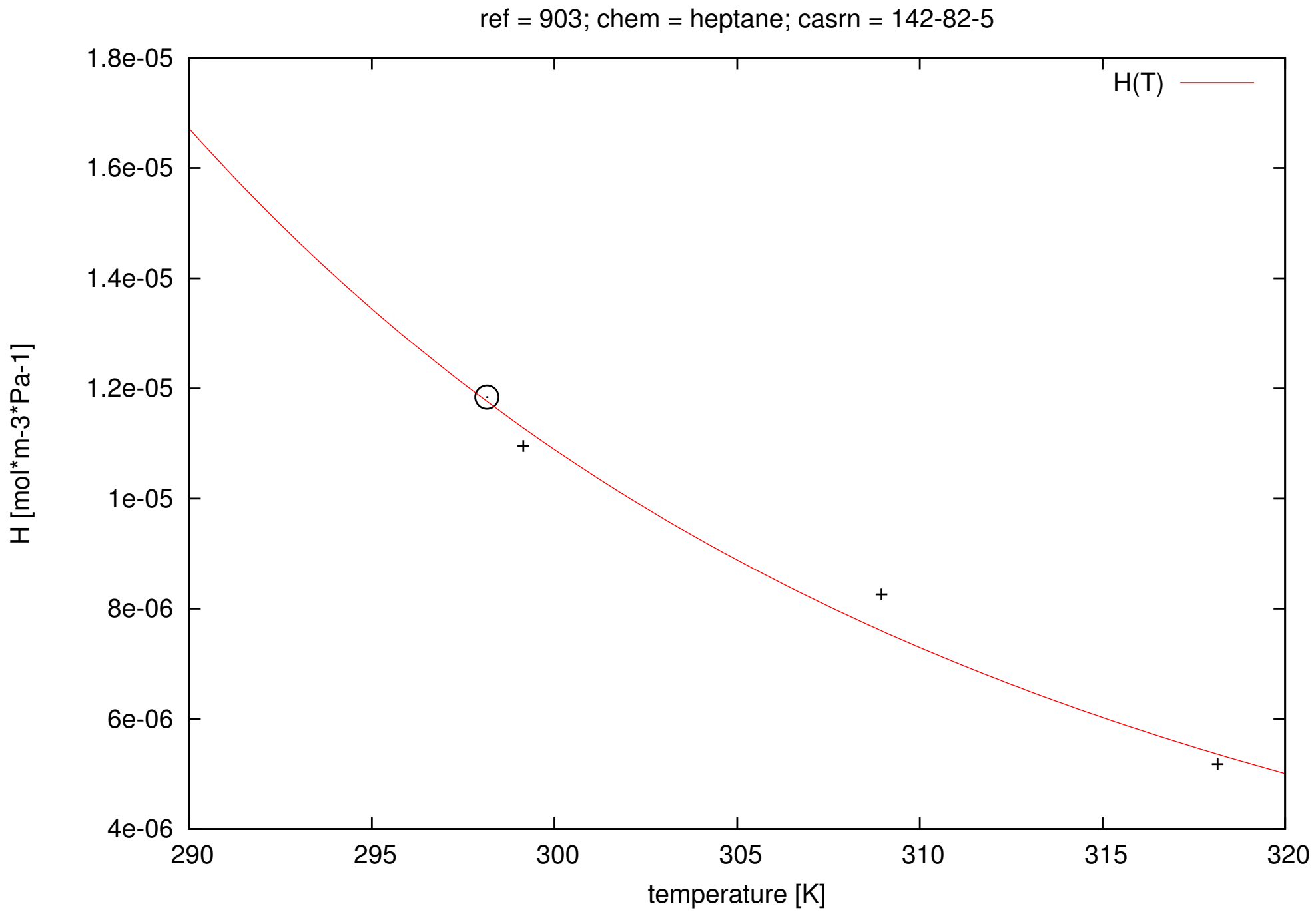

ref = 903; chem = 1,4-dimethylbenzene; casrn = 106-42-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0012
0.0011
0.001
0.0009
0.0008
0.0007
0.0006
300
305
310
315
320

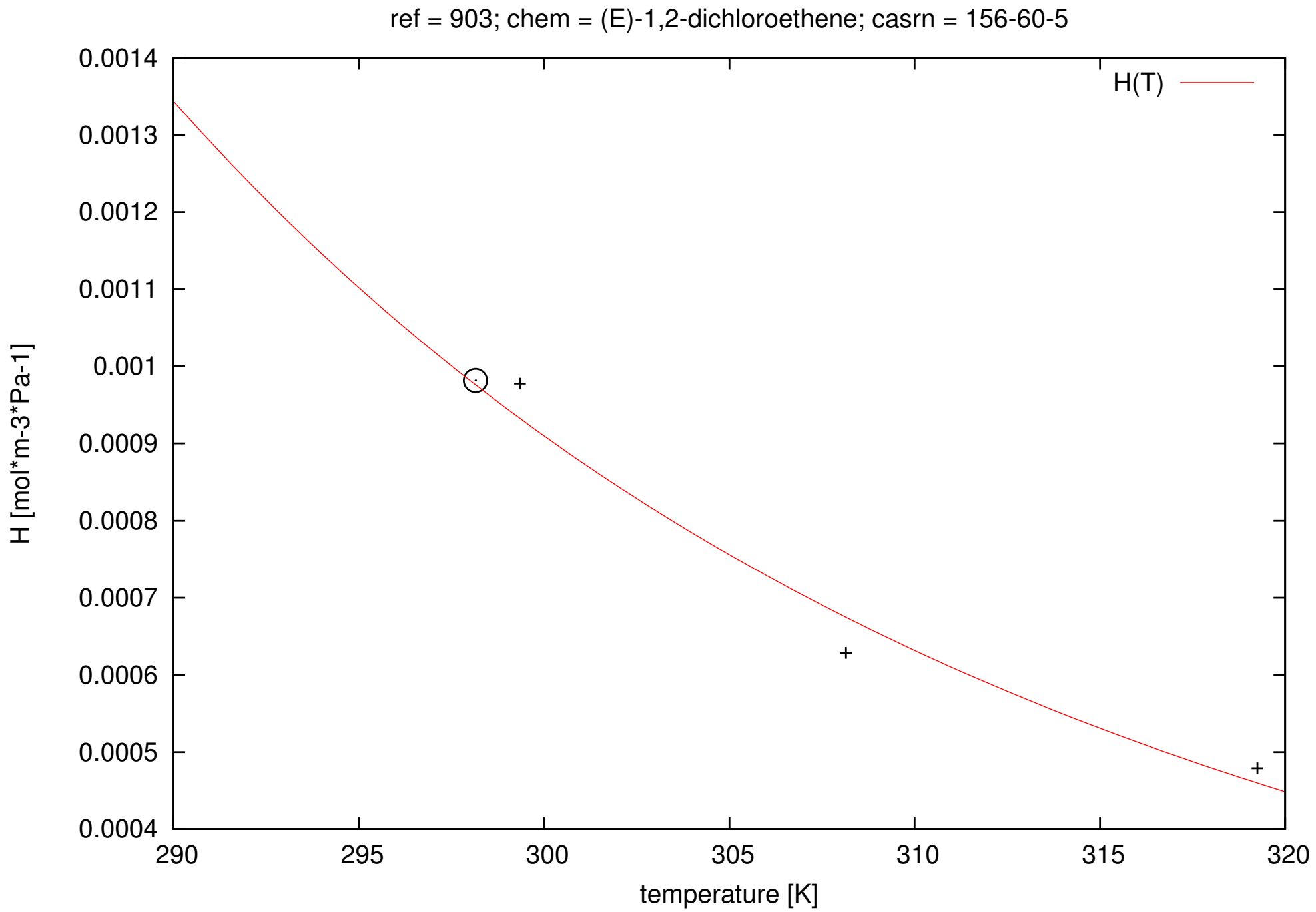

ref = 903; chem = bromobenzene; casrn = 108-86-1
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
300
305
310
315
320

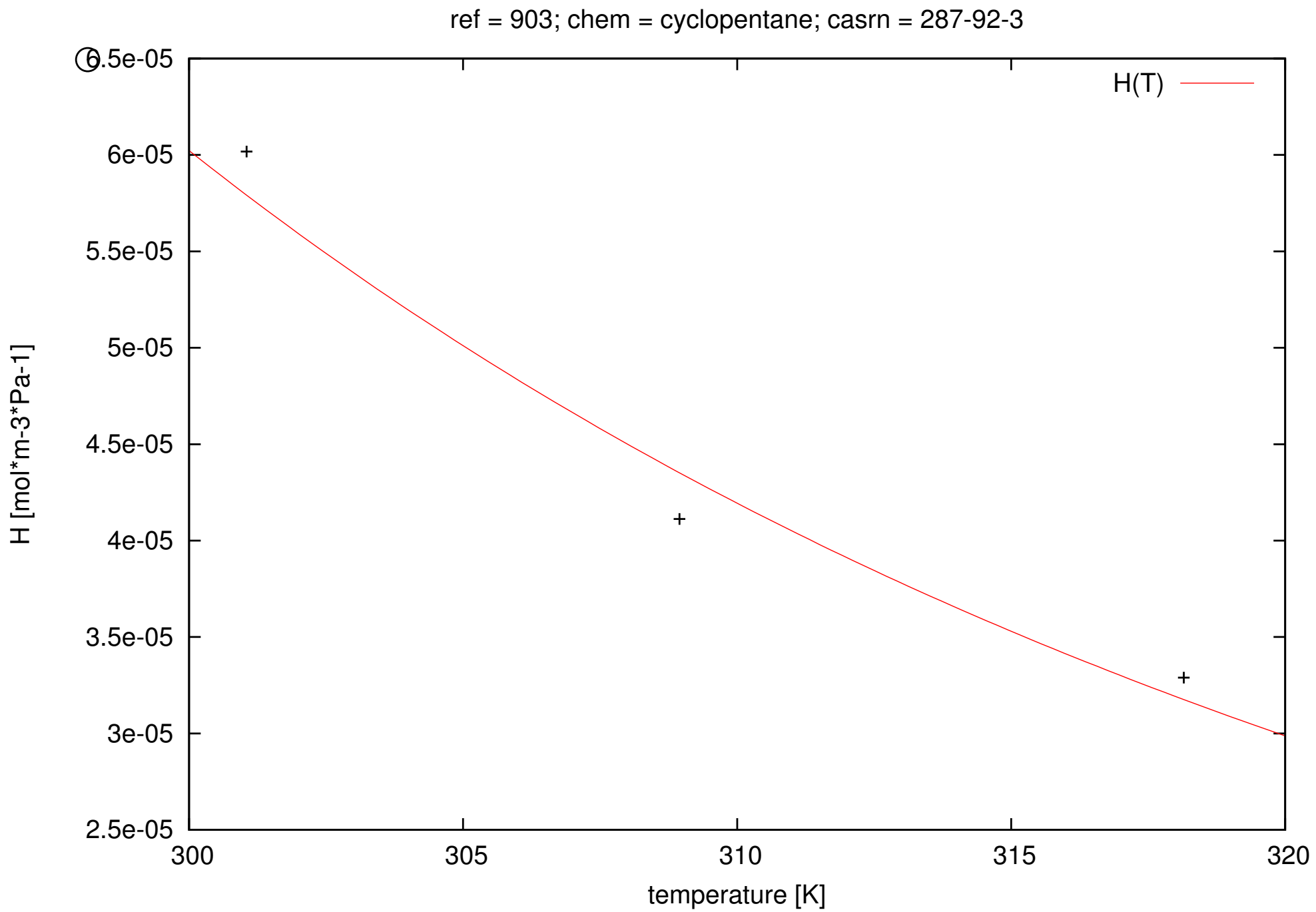

ref = 903; chem = methylcyclohexane; casrn = 108-87-2
H(T)
H [mol*m-3*Pa-1]
8e-05
7e-05
6e-05
5e-05
4e-05
3e-05
2e-05
1e-05
300
305
310
315
320
temperature [K]

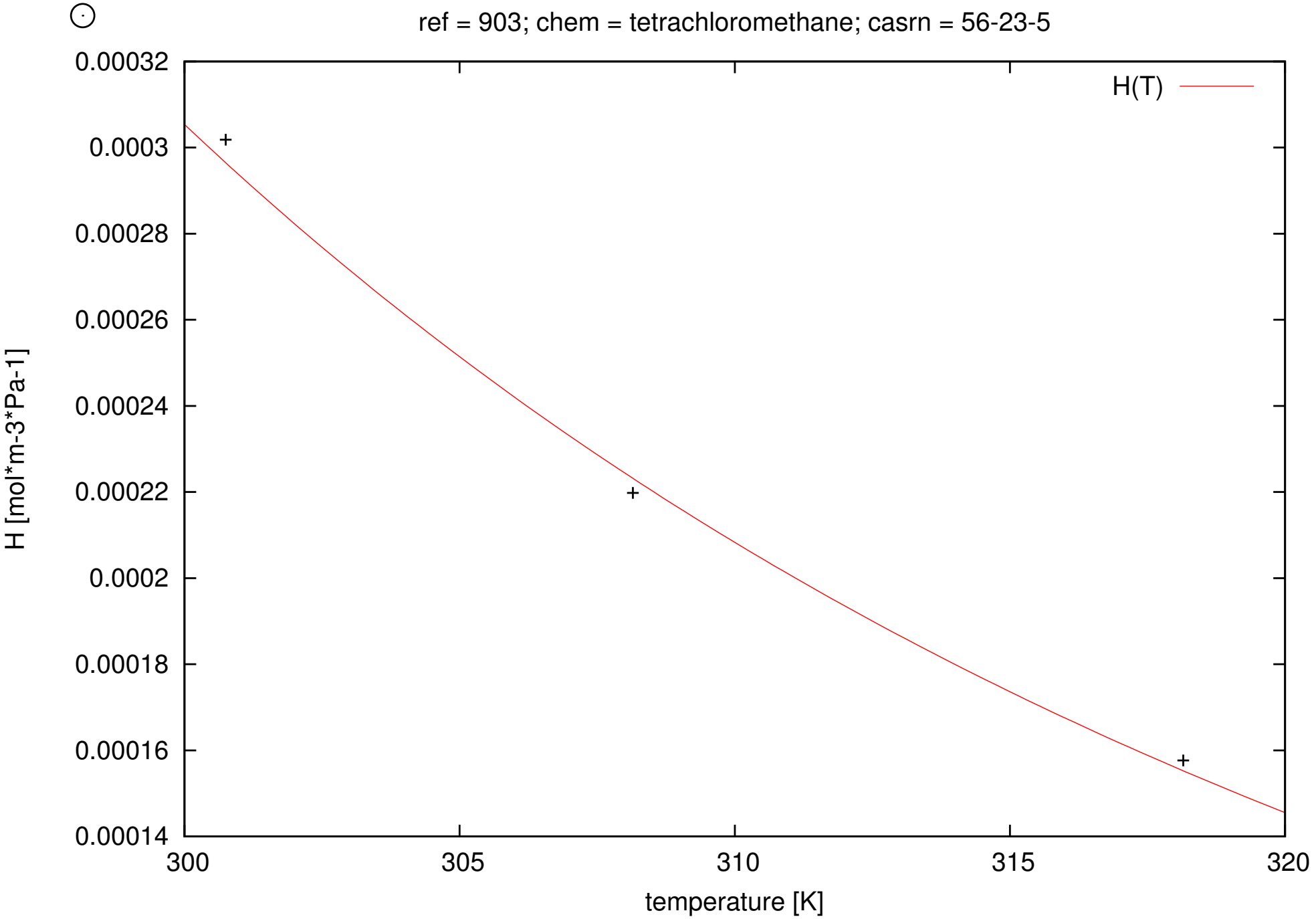

ref = 903; chem = octane; casrn = 111-65-9
H(T)
H [mol*m-3*Pa-1]
temperature [K]
3e-05
2.5e-05
2e-05
1.5e-05
1e-05
5e-06
0
300
305
310
315
320

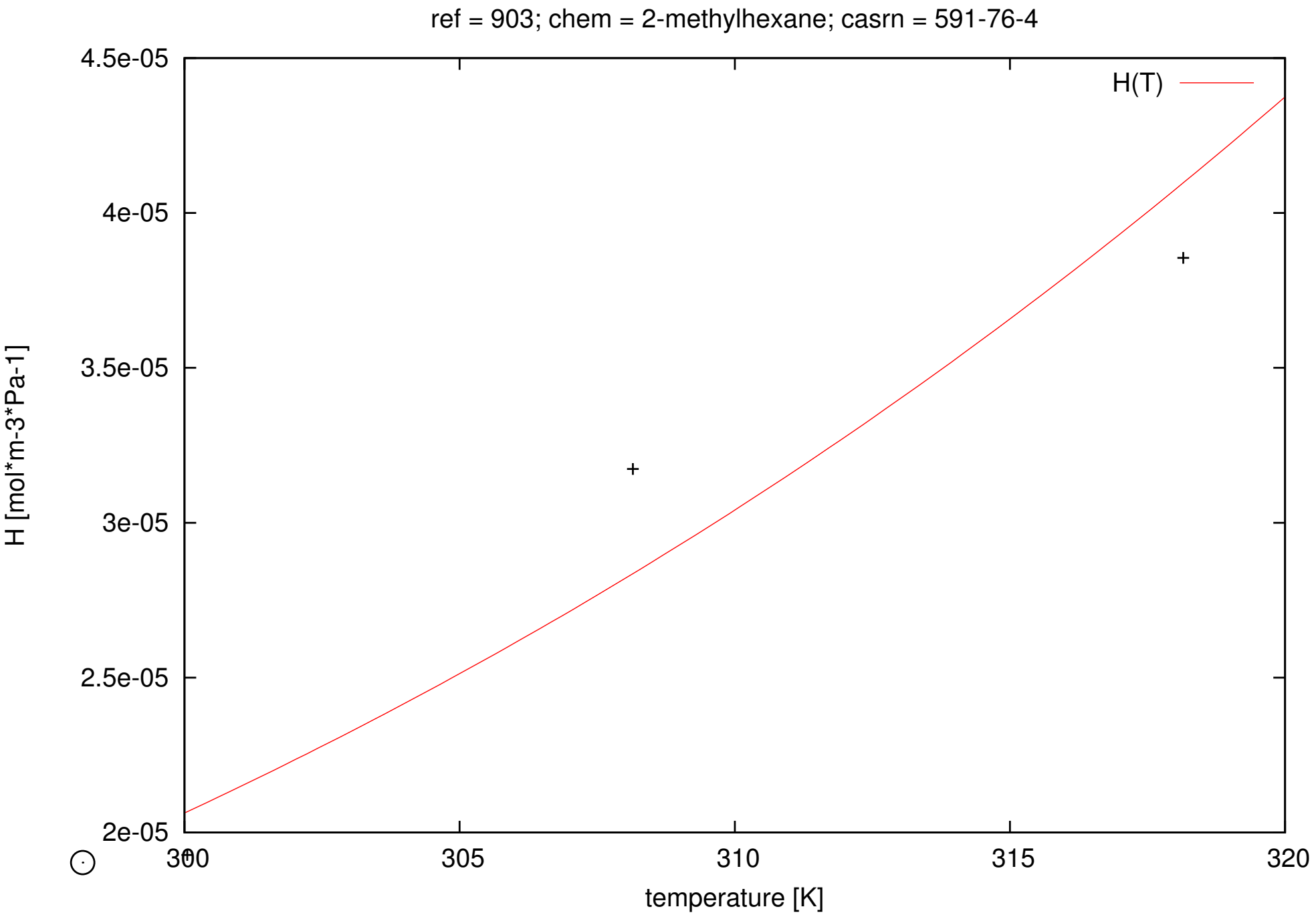

ref = 903; chem = hexachlorobenzene; casrn = 118-74-1
H(T)
H [mol*m-3*Pa-1]
temperature [K]
4.1e-05
4e-05
3.9e-05
3.8e-05
3.7e-05
3.6e-05
3.5e-05
3.4e-05
3.3e-05
290
295
300
305
310
315
320

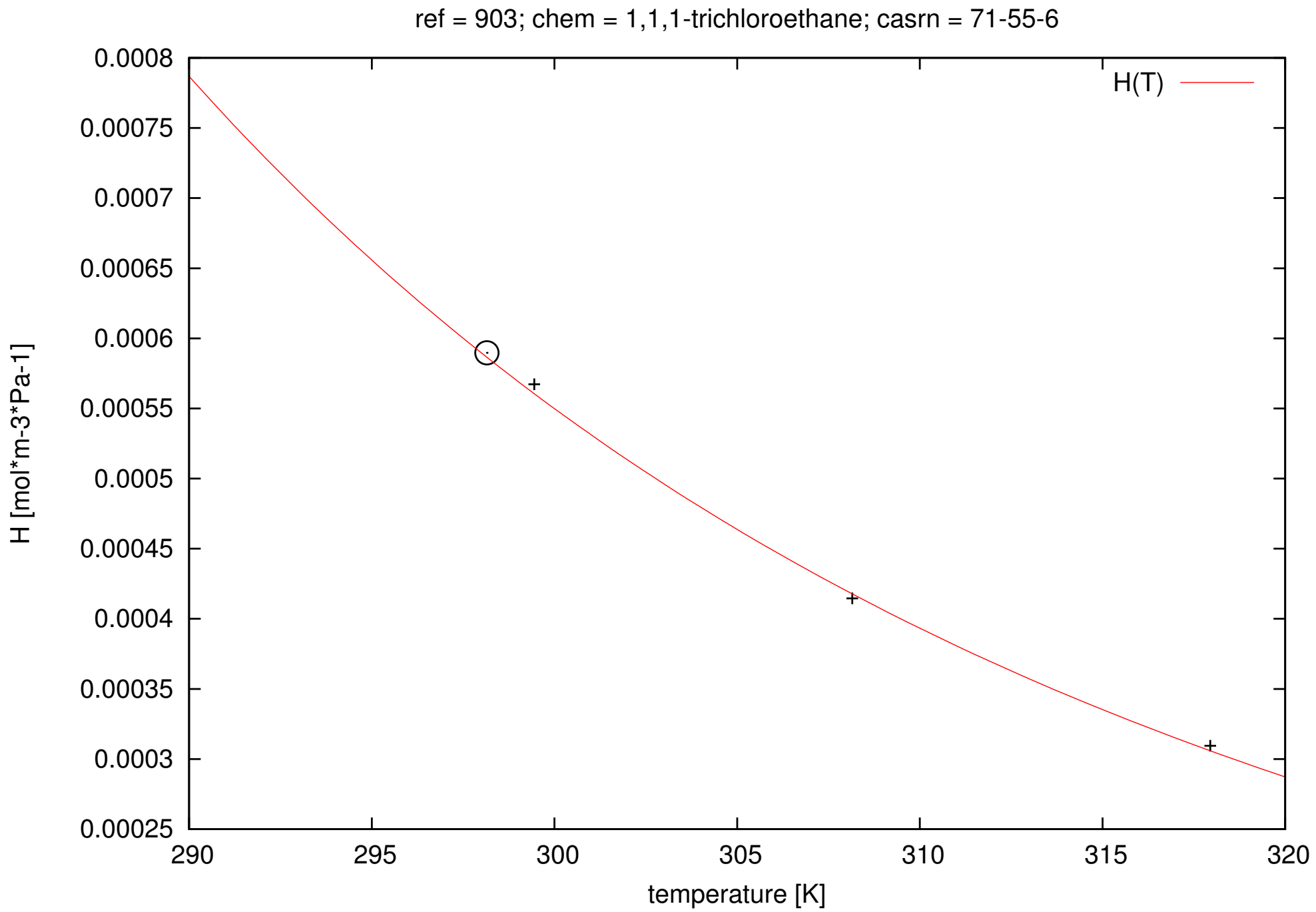

ref = 903; chem = heptane; casrn = 142-82-5
H(T)
H [mol*m-3*Pa-1]
temperature [K]
1.8e-05
1.6e-05
1.4e-05
1.2e-05
1e-05
8e-06
6e-06
4e-06
290
295
300
305
310
315
320

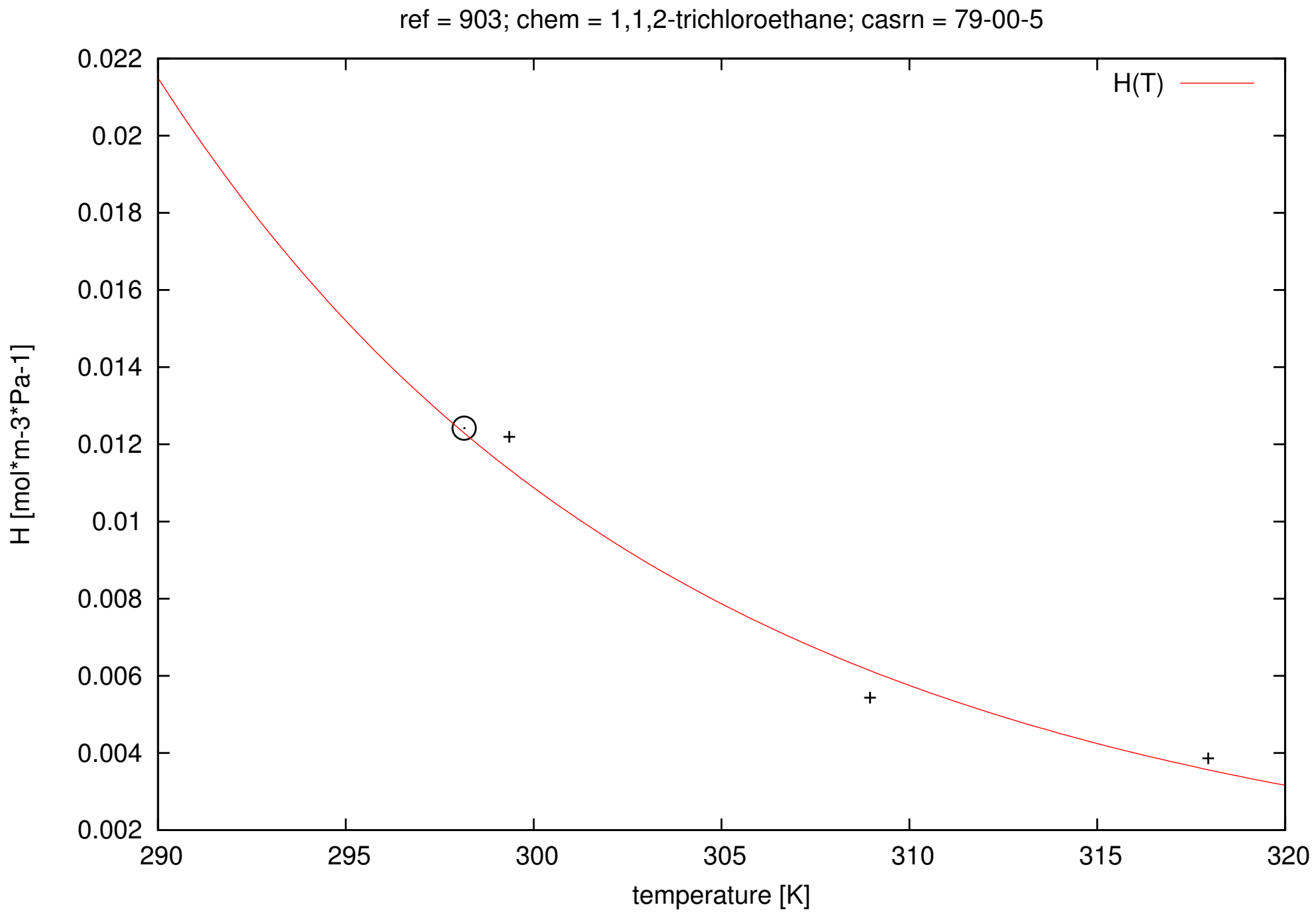

ref = 903; chem = (E)-1,2-dichloroethene; casrn = 156-60-5
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0014
0.0013
0.0012
0.0011
0.001
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004
290
295
300
305
310
315
320

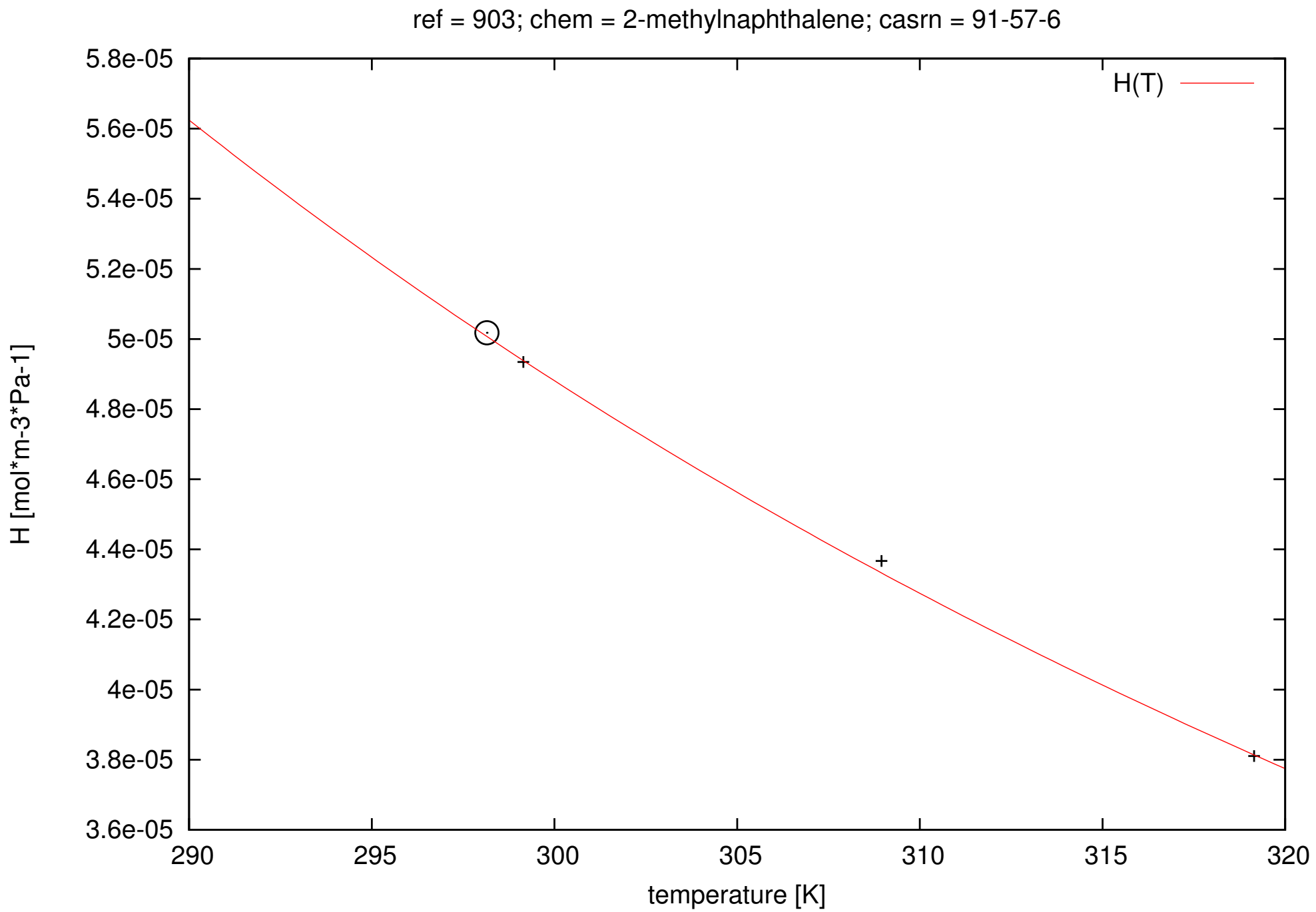

ref = 903; chem = cyclopentane; casrn = 287-92-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
6.5e-05
6e-05
5.5e-05
5e-05
4.5e-05
4e-05
3.5e-05
3e-05
2.5e-05
300
305
310
315
320

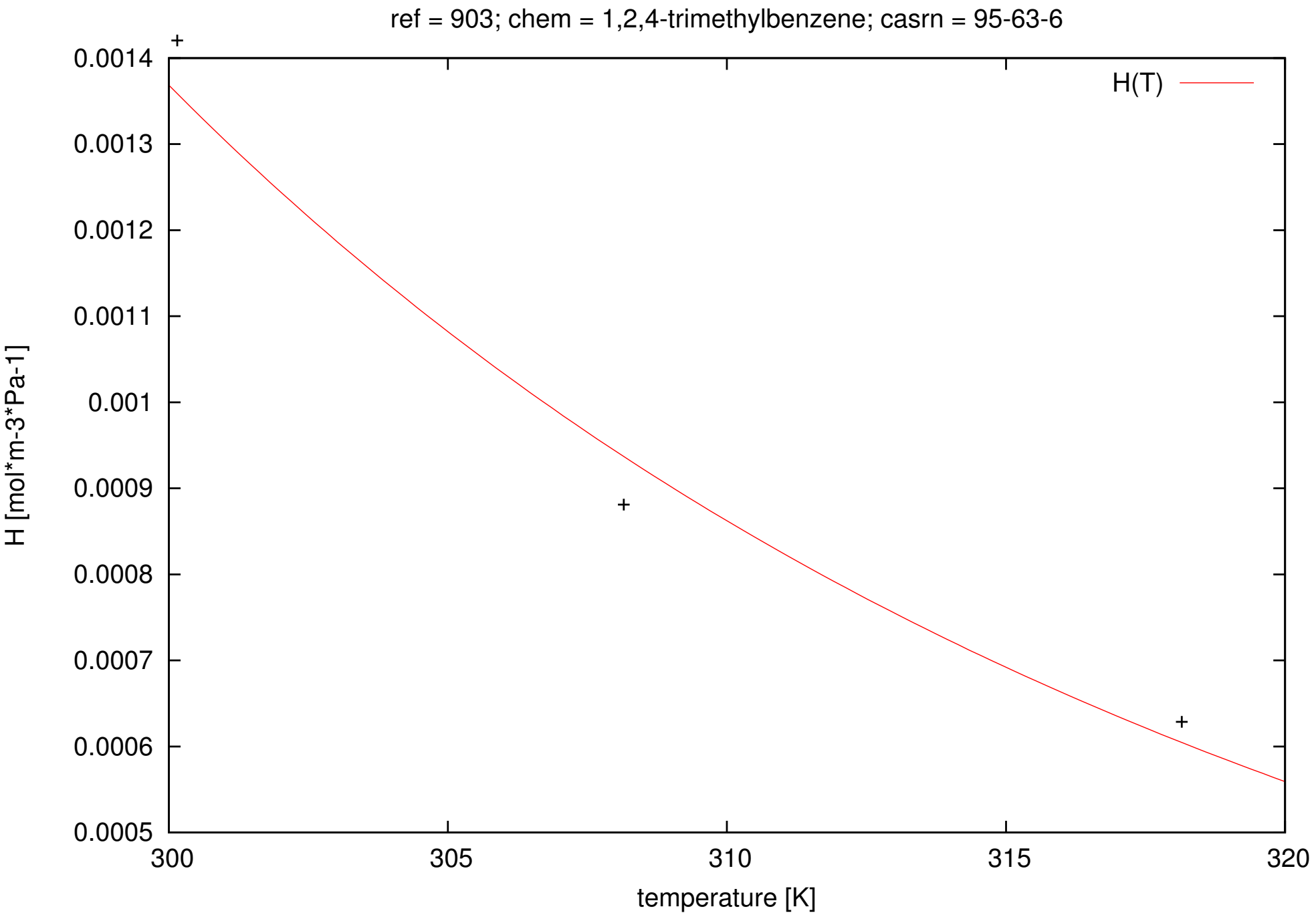

ref = 903; chem = tetrachloromethane; casrn = 56-23-5
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.00032
0.0003
0.00028
0.00026
0.00024
0.00022
0.0002
0.00018
0.00016
0.00014
300
305
310
315
320

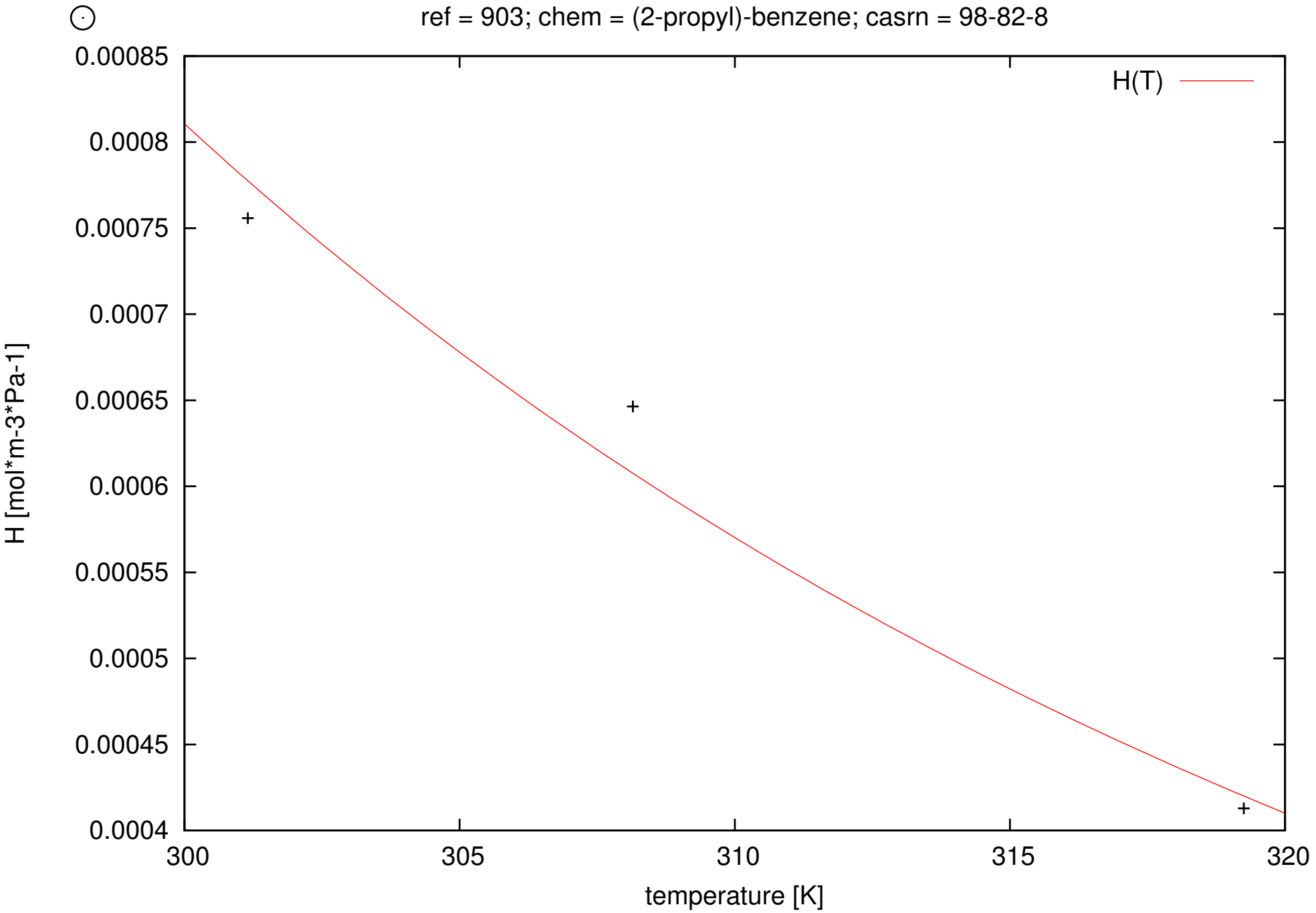

ref = 903; chem = 2-methylhexane; casrn = 591-76-4
H(T)
H [mol*m-3*Pa-1]
temperature [K]
4.5e-05
4e-05
3.5e-05
3e-05
2.5e-05
2e-05
300
305
310
315
320

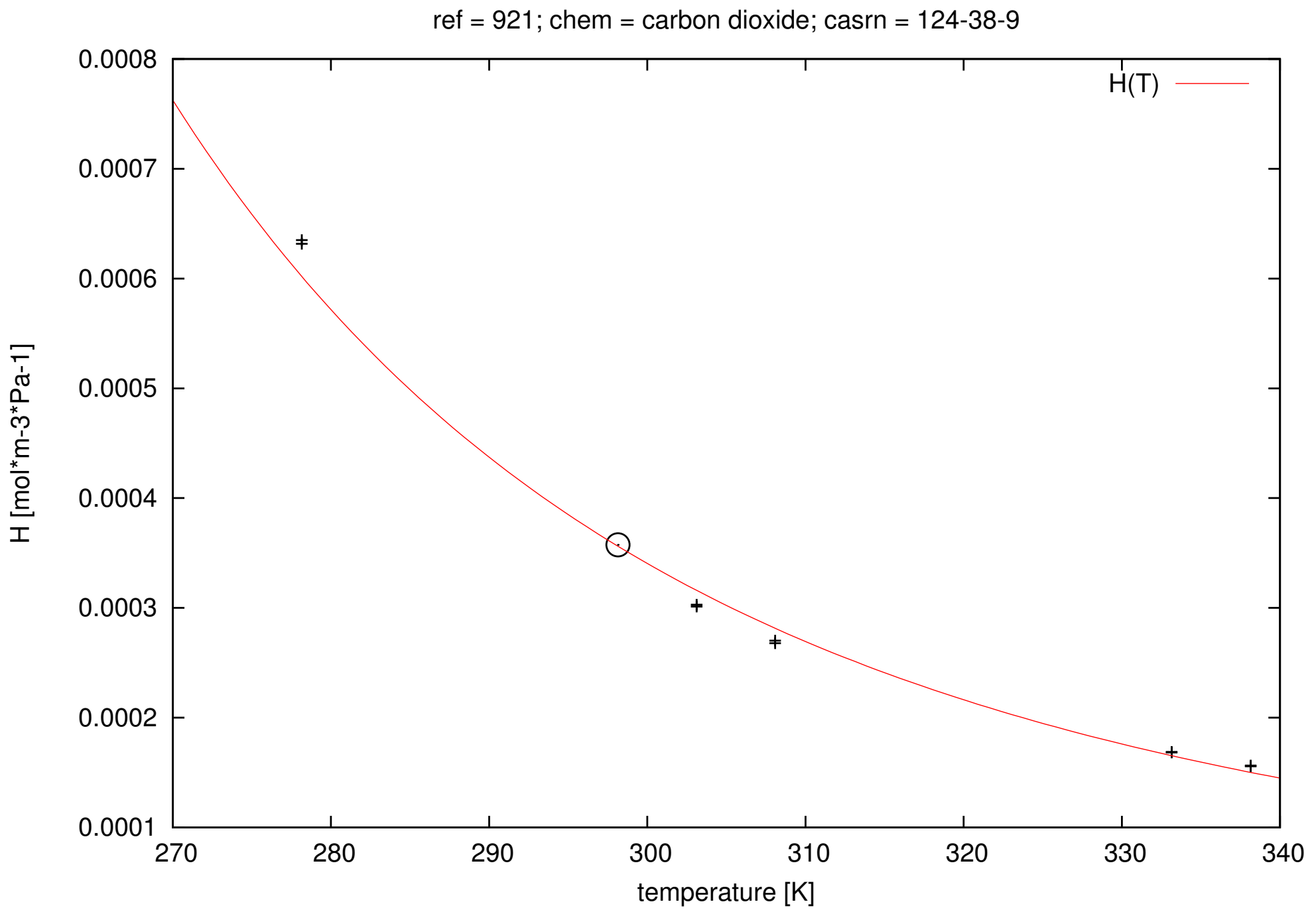

ref = 903; chem = 1,1,1-trichloroethane; casrn = 71-55-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0008
0.00075
0.0007
0.00065
0.0006
0.00055
0.0005
0.00045
0.0004
0.00035
0.0003
0.00025
290
295
300
305
310
315
320

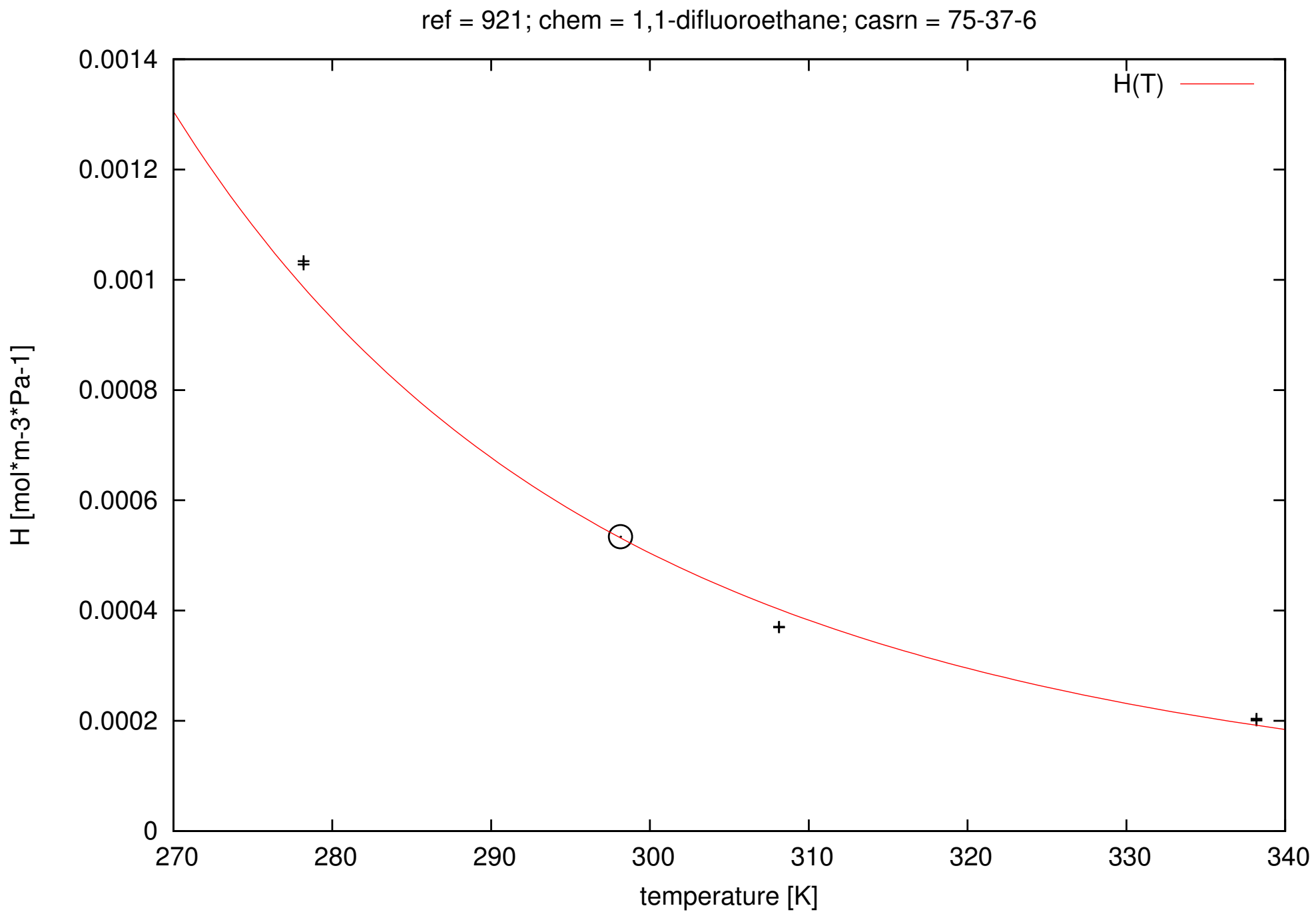

ref = 903; chem = 1,1,2-trichloroethane; casrn = 79-00-5
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
290
295
300
305
310
315
320

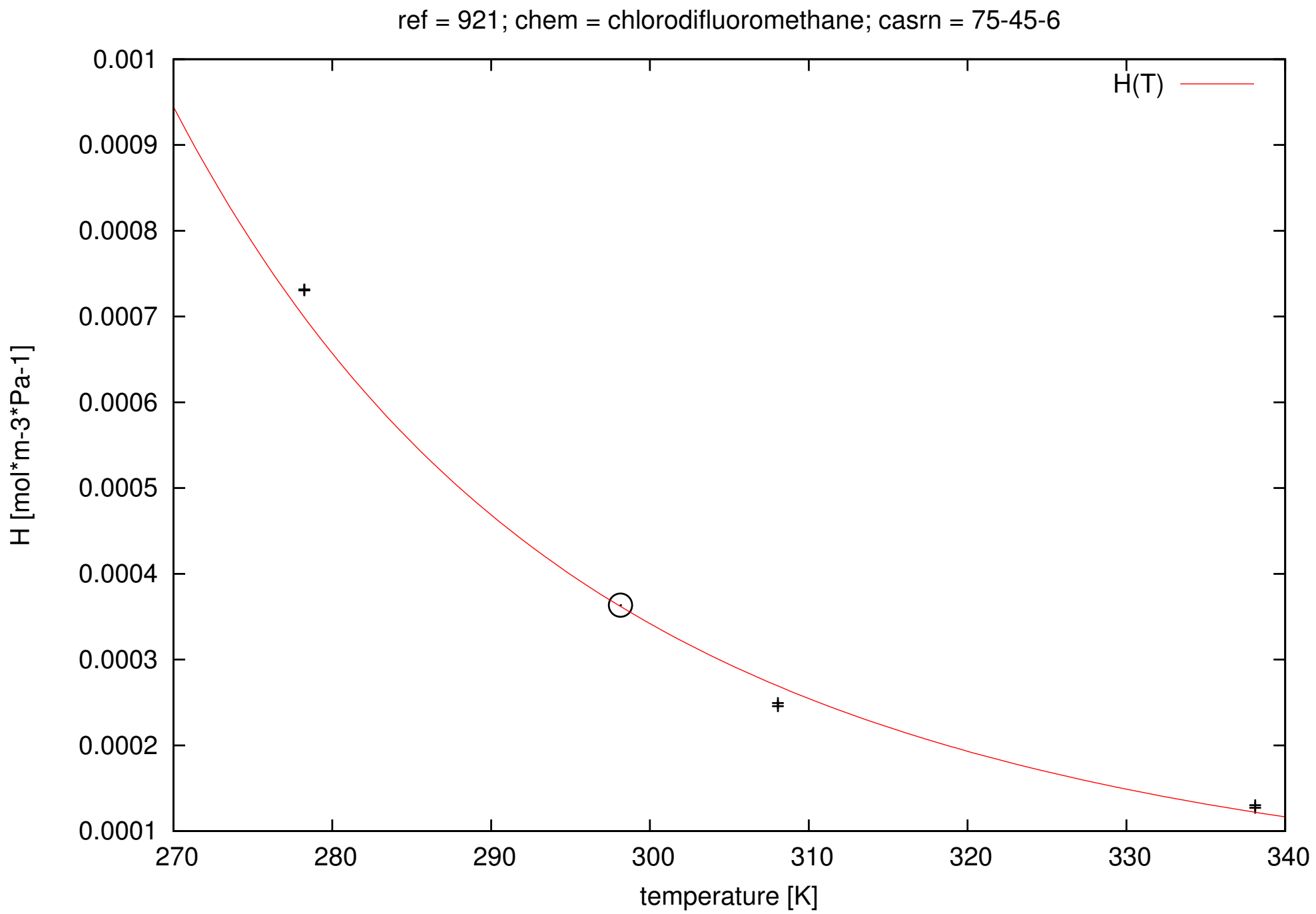

ref = 903; chem = 2-methylnaphthalene; casrn = 91-57-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
5.8e-05
5.6e-05
5.4e-05
5.2e-05
5e-05
4.8e-05
4.6e-05
4.4e-05
4.2e-05
4e-05
3.8e-05
3.6e-05
290
295
300
305
310
315
320

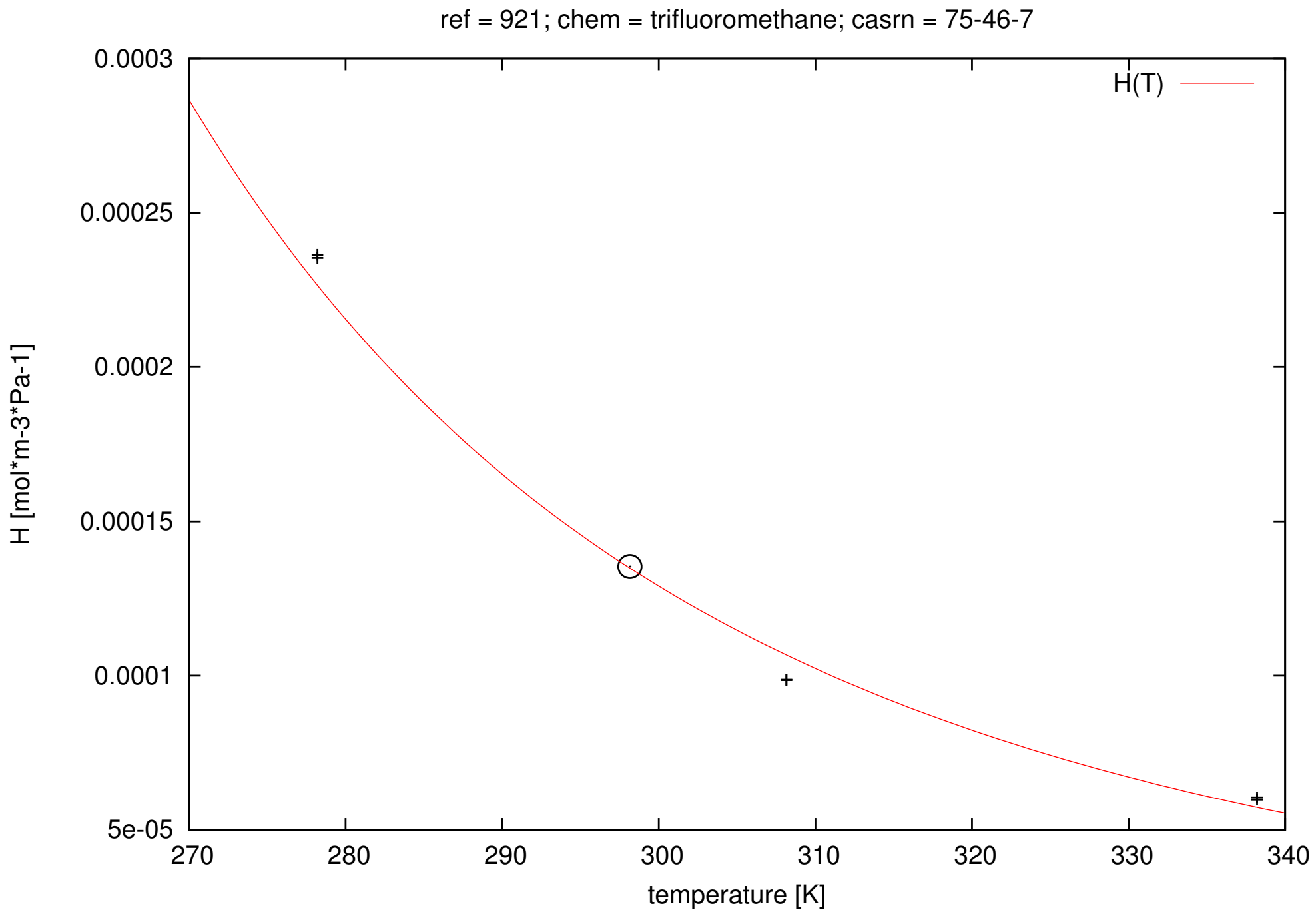

ref = 903; chem = 1,2,4-trimethylbenzene; casrn = 95-63-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0014
0.0013
0.0012
0.0011
0.001
0.0009
0.0008
0.0007
0.0006
0.0005
300
305
310
315
320

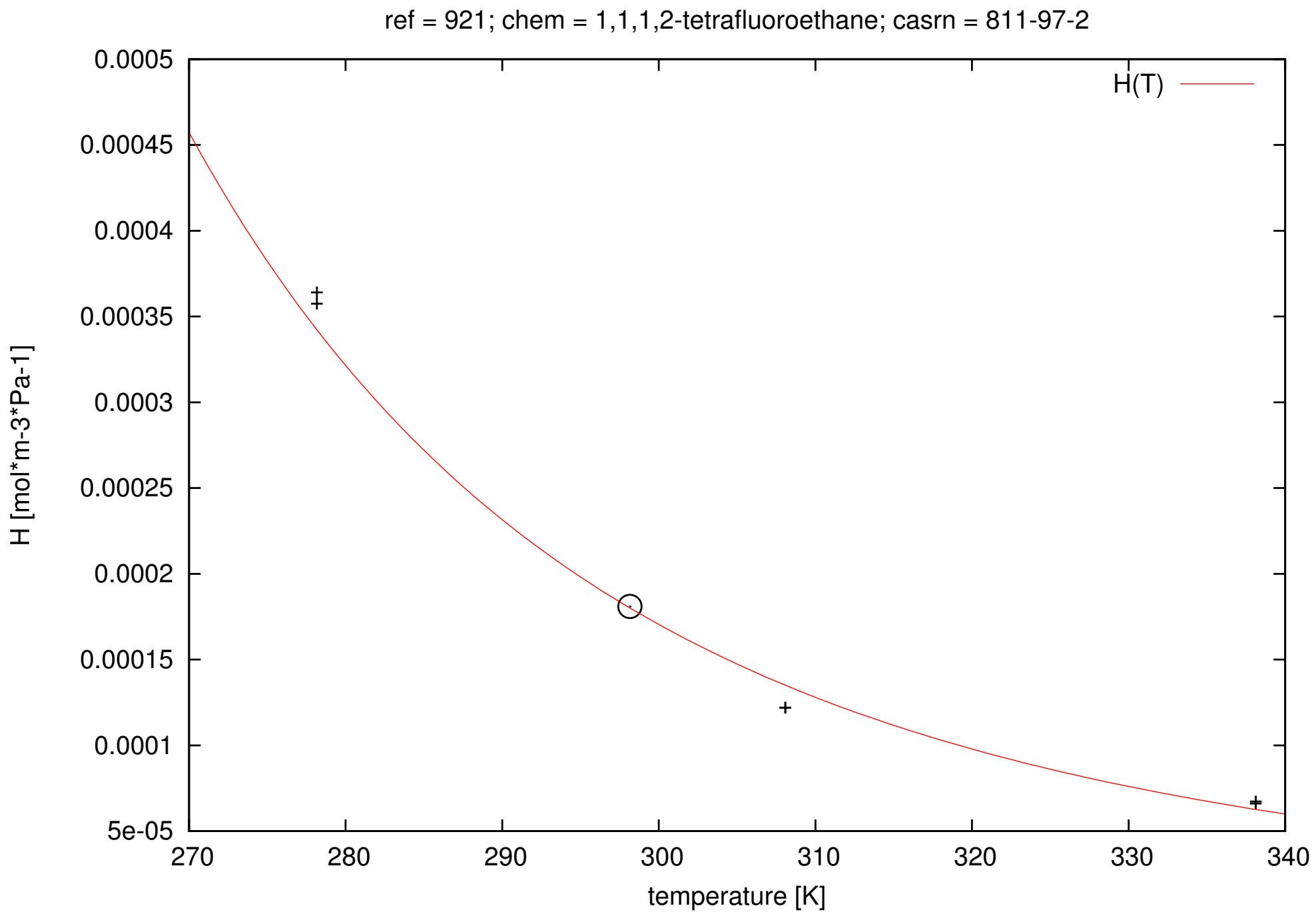

ref = 903; chem = (2-propyl)-benzene; casrn = 98-82-8
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.00085
0.0008
0.00075
0.0007
0.00065
0.0006
0.00055
0.0005
0.00045
0.0004
300
305
310
315
320

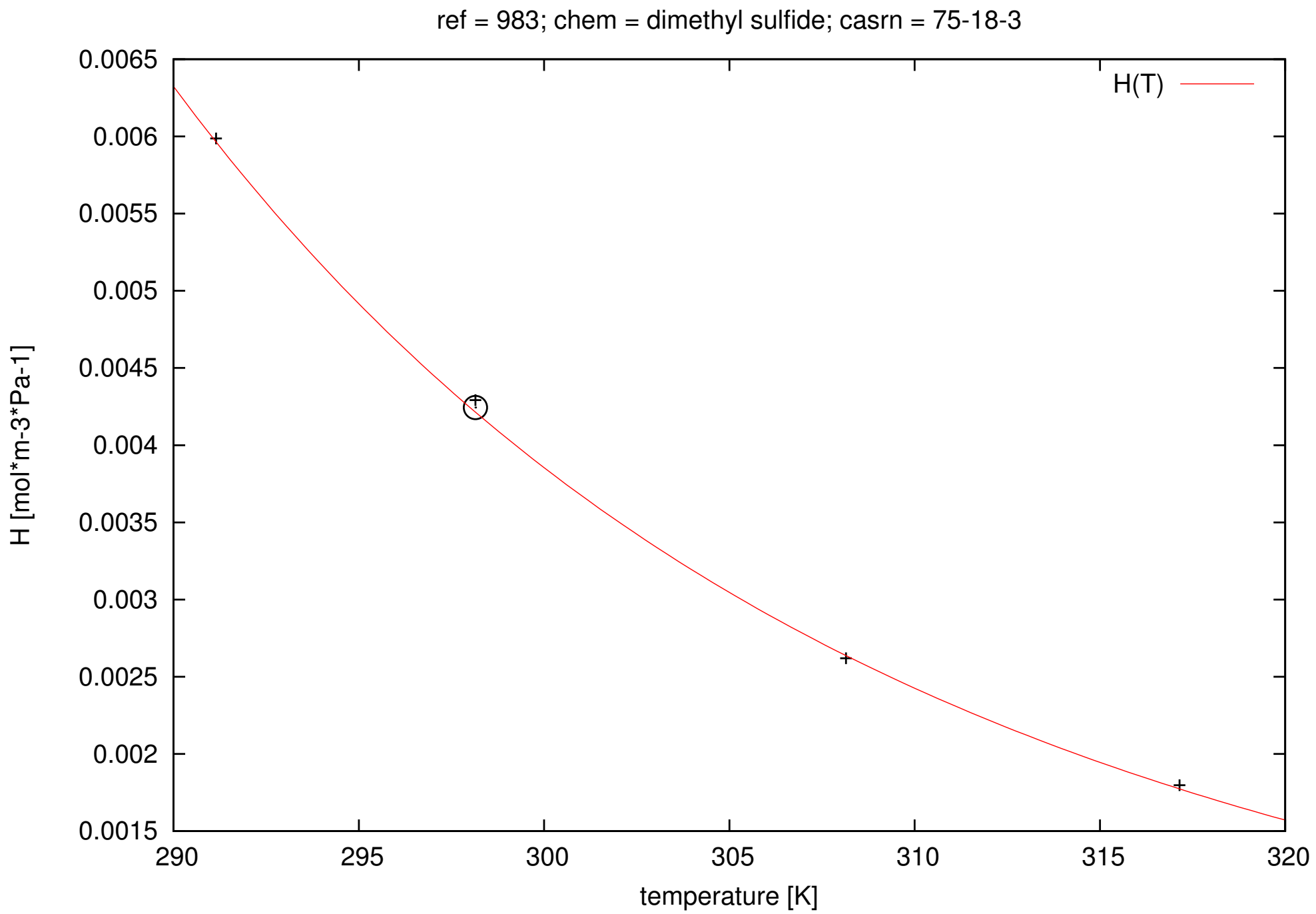

ref = 921; chem = carbon dioxide; casrn = 124-38-9
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
270
280
290
300
310
320
330
340

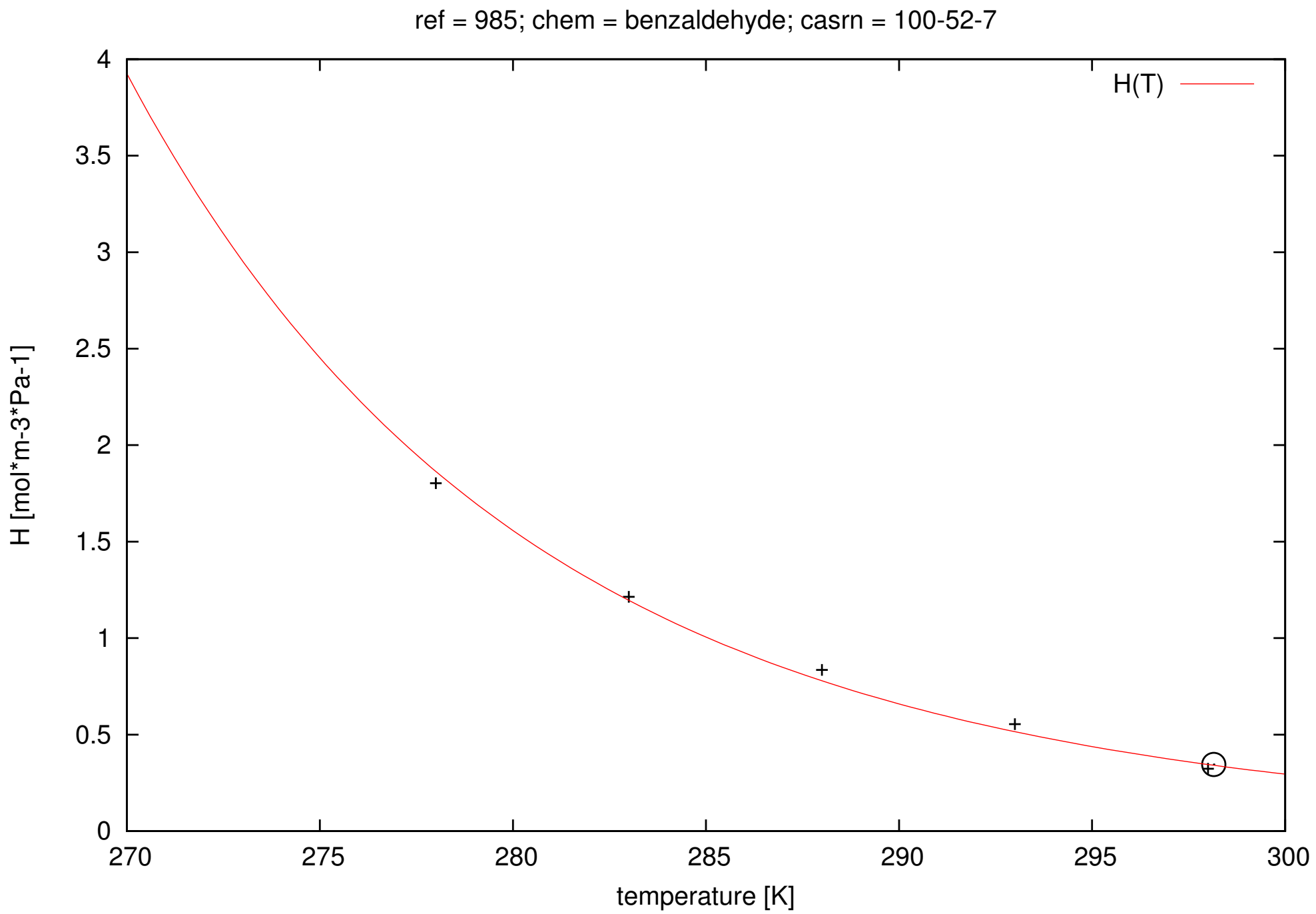

ref = 921; chem = 1,1-difluoroethane; casrn = 75-37-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
270
280
290
300
310
320
330
340

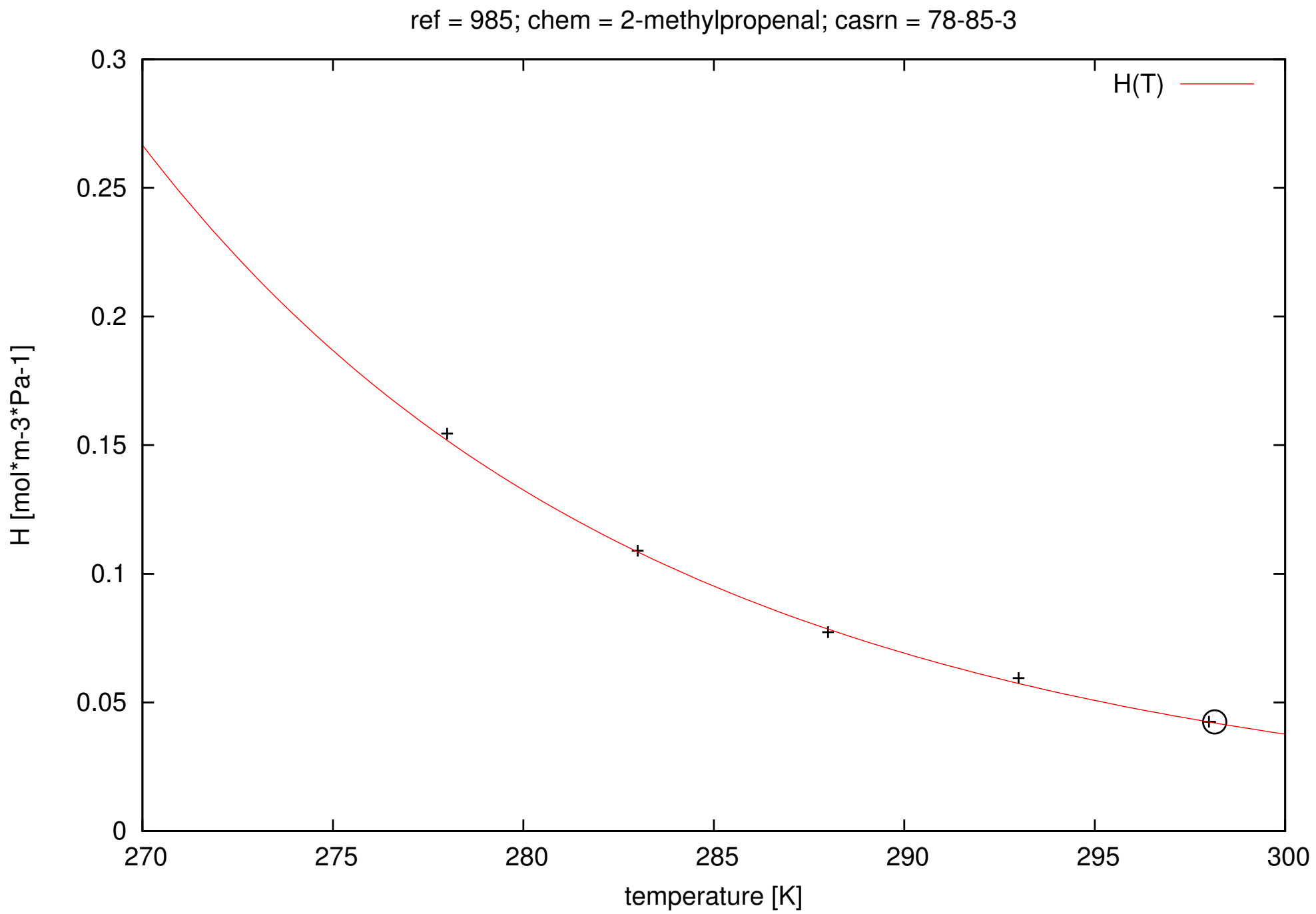

ref = 921; chem = chlorodifluoromethane; casrn = 75-45-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.001
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
270
280
290
300
310
320
330
340

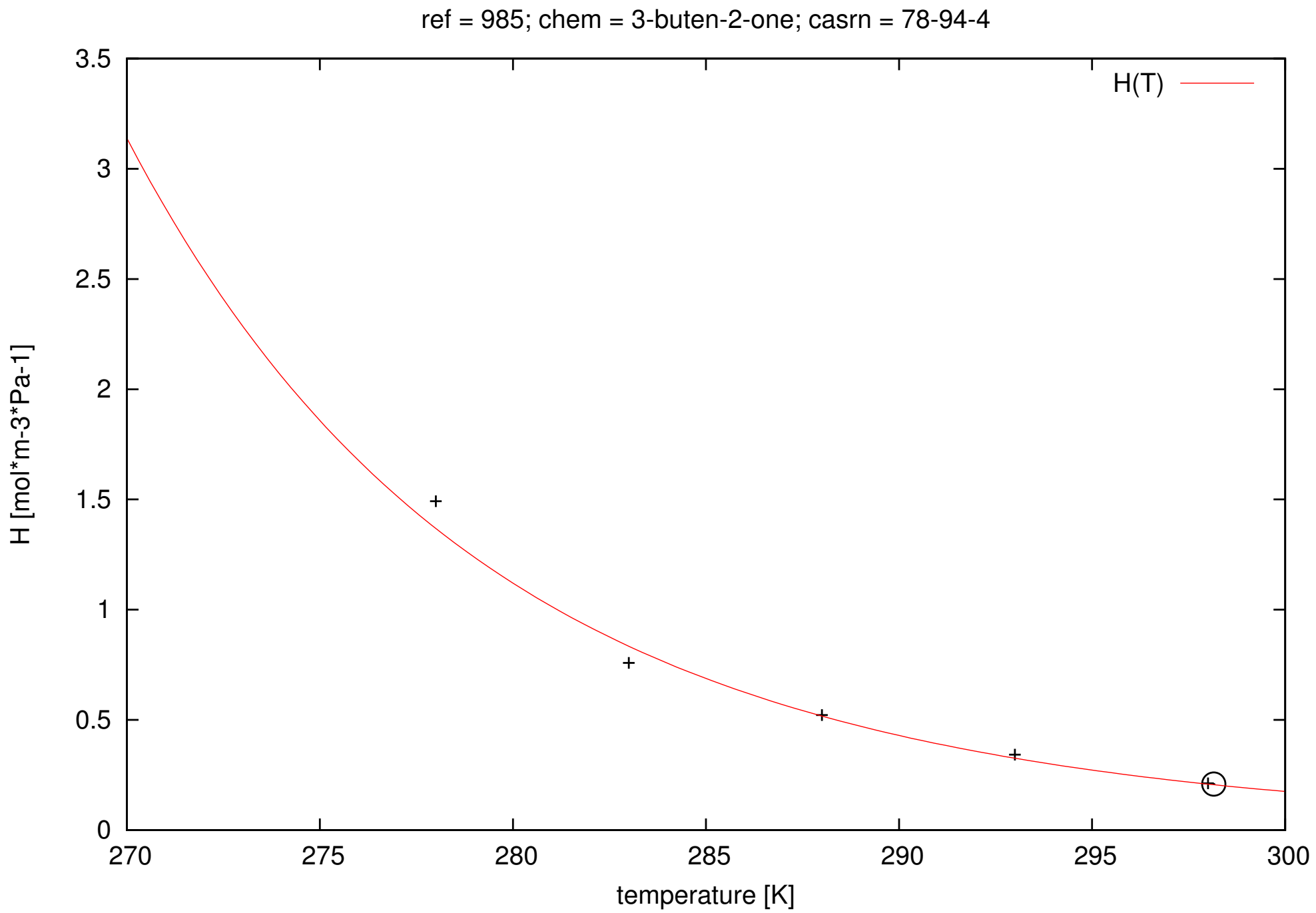

ref = 921; chem = trifluoromethane; casrn = 75-46-7
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0003
0.00025
0.0002
0.00015
0.0001
5e-05
270
280
290
300
310
320
330
340

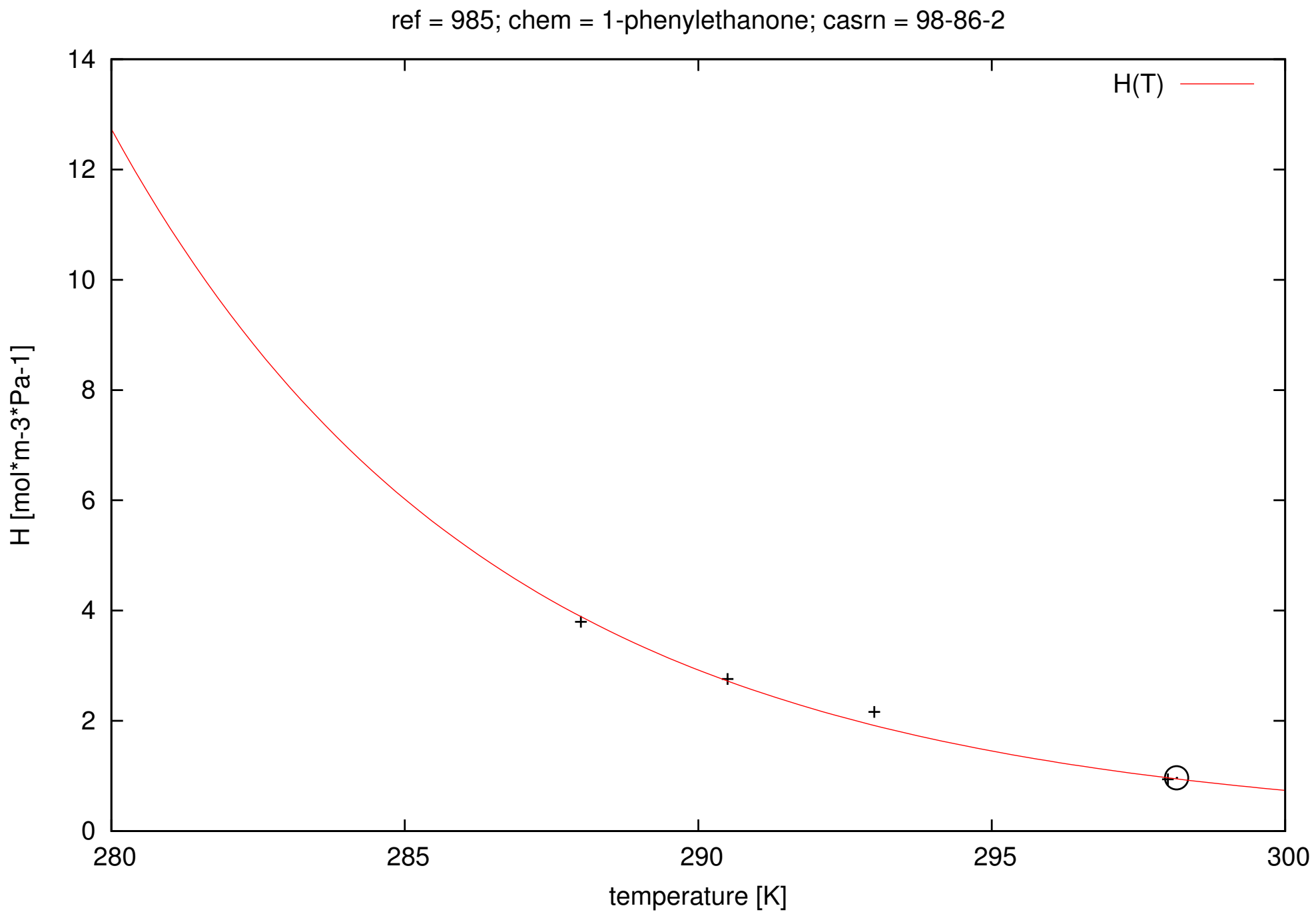

ref = 921; chem = 1,1,1,2-tetrafluoroethane; casrn = 811-97-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0005
0.00045
0.0004
0.00035
0.0003
0.00025
0.0002
0.00015
0.0001
5e-05
270
280
290
300
310
320
330
340

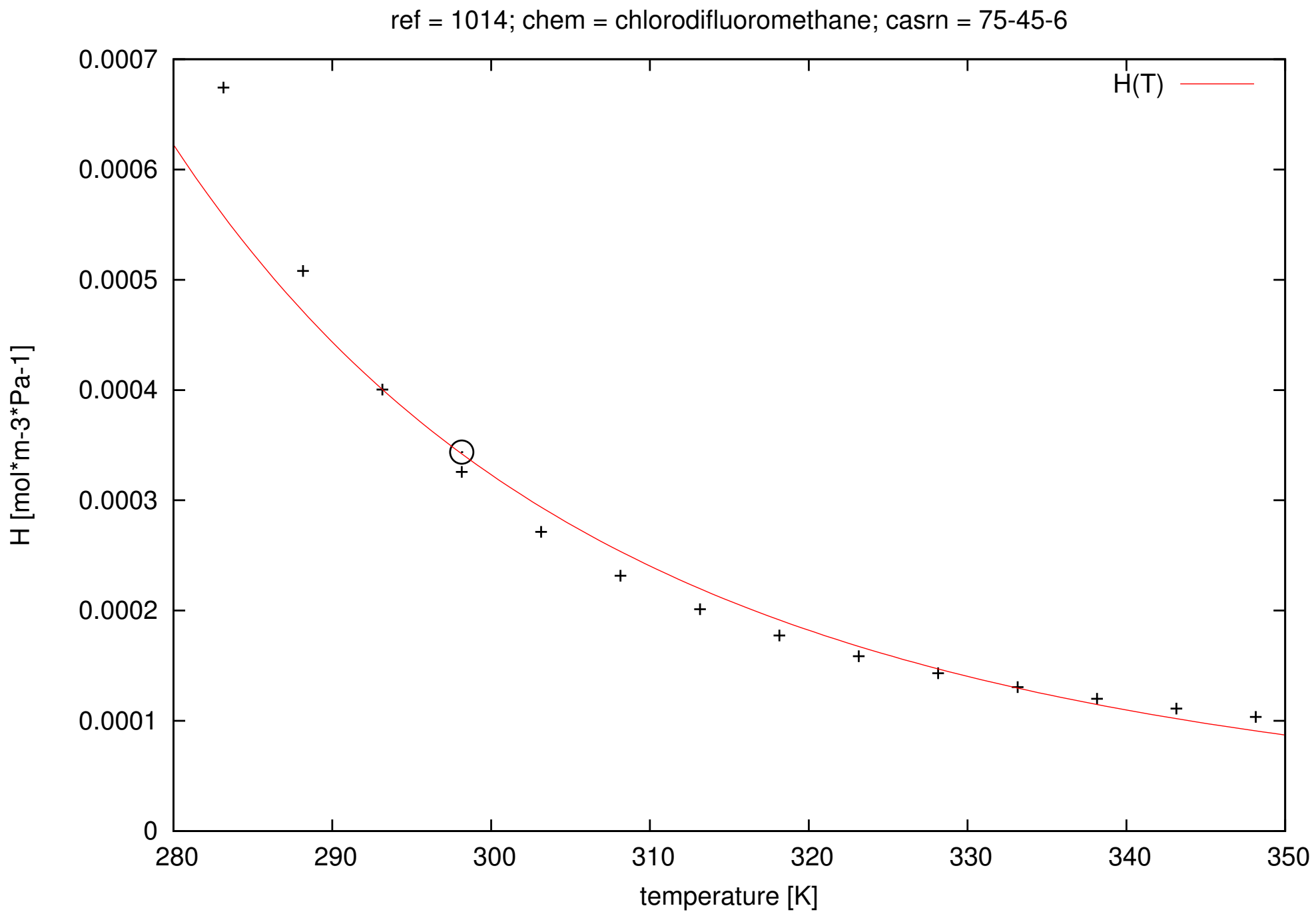

ref = 983; chem = dimethyl sulfide; casrn = 75-18-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
290
295
300
305
310
315
320

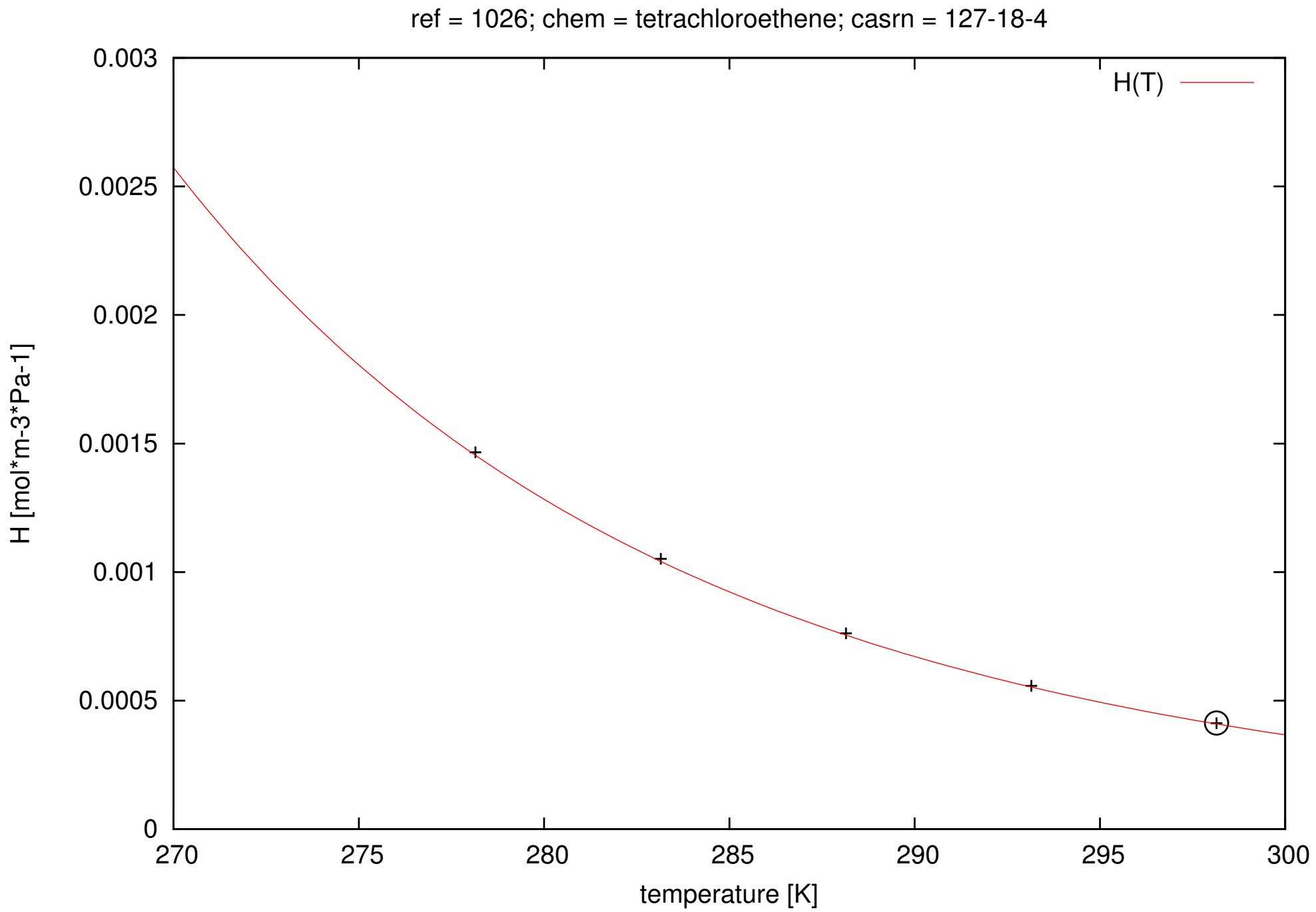

ref = 985; chem = benzaldehyde; casrn = 100-52-7
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0
0.5
1
1.5
2
2.5
3
3.5
4
270
275
280
285
290
295
300

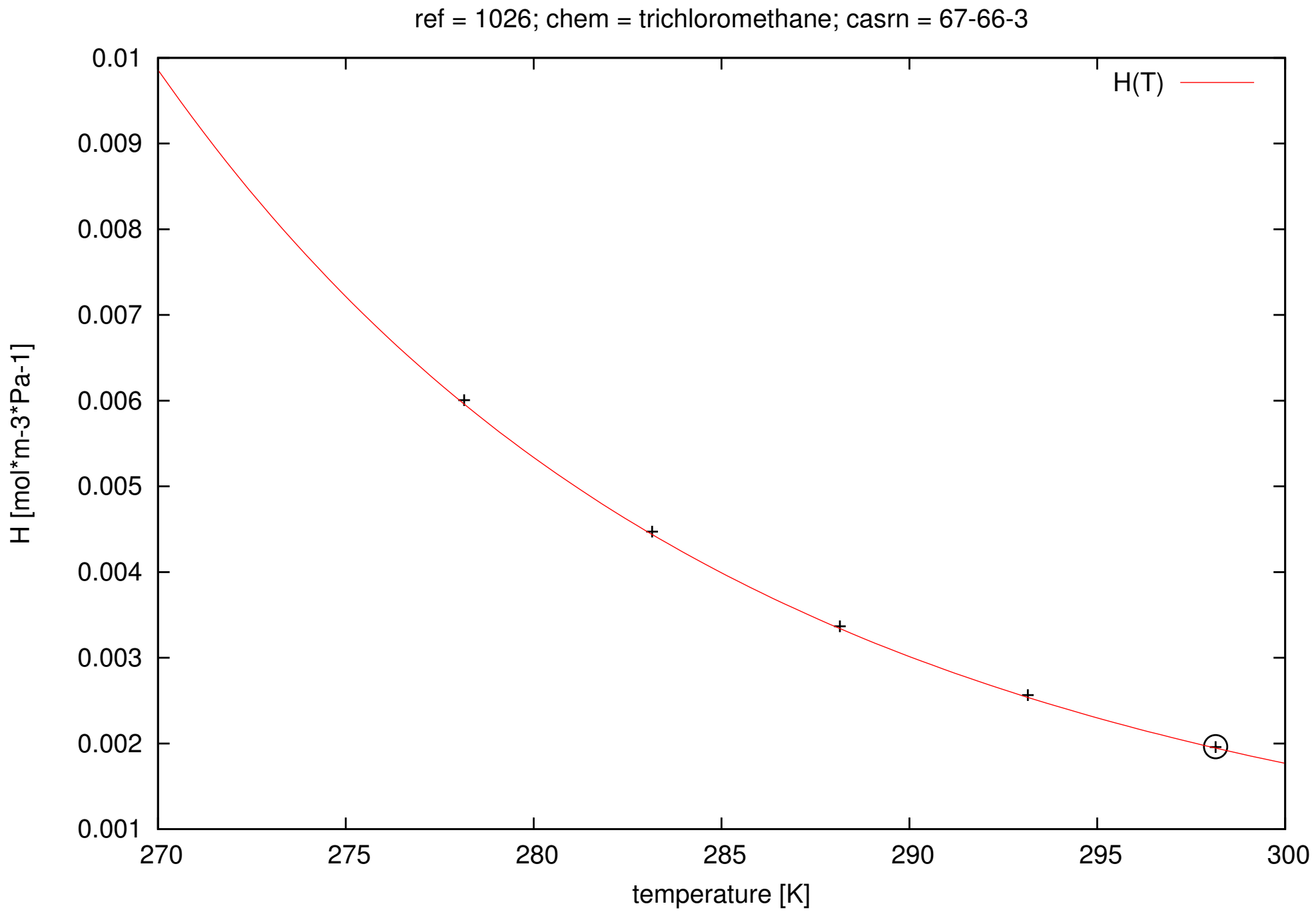

ref = 985; chem = 2-methylpropenal; casrn = 78-85-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.3
0.25
0.2
0.15
0.1
0.05
0
270
275
280
285
290
295
300

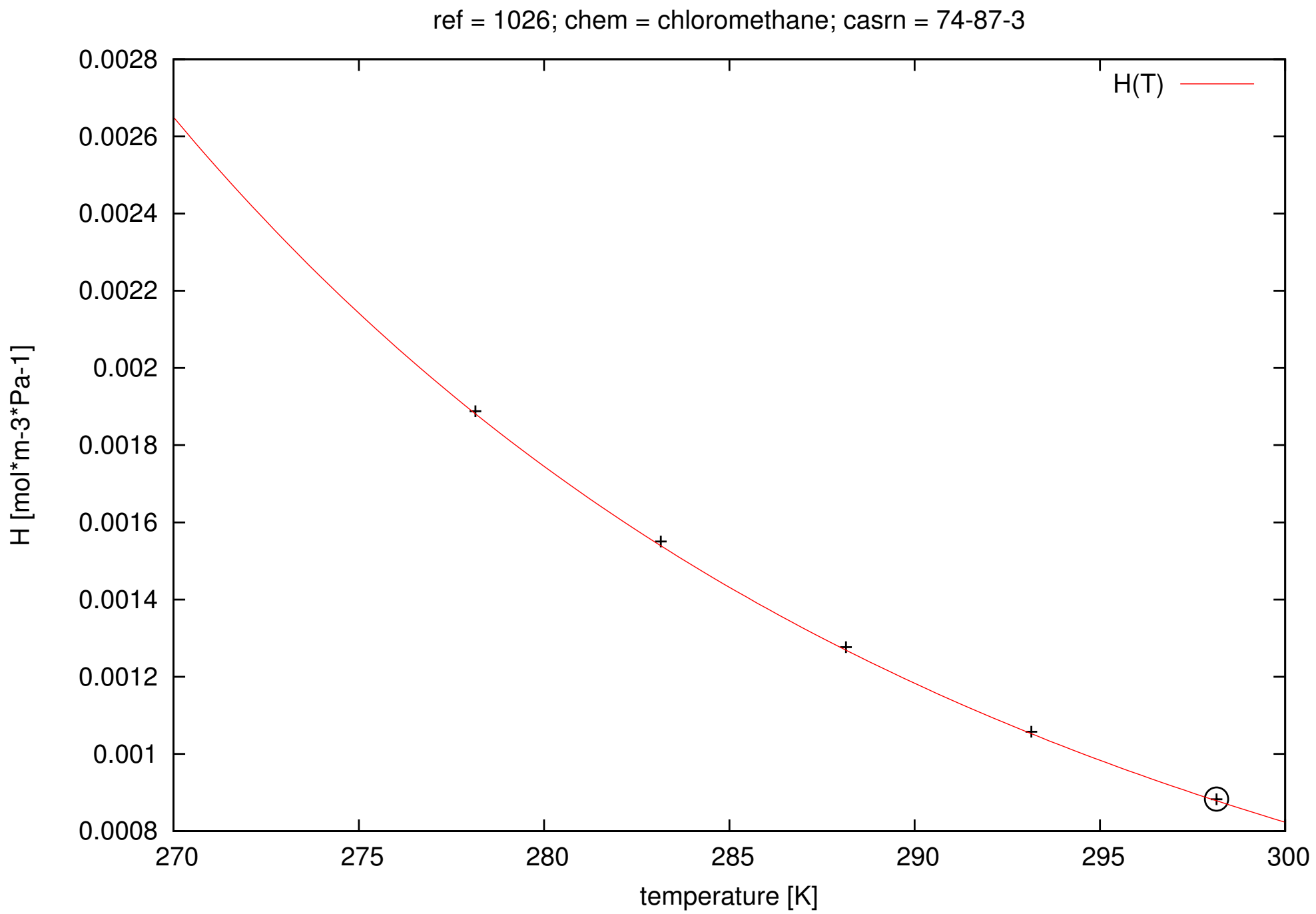

ref = 985; chem = 3-buten-2-one; casrn = 78-94-4
H(T)
H [mol*m-3*Pa-1]
temperature [K]
3.5
3
2.5
2
1.5
1
0.5
0
270
275
280
285
290
295
300

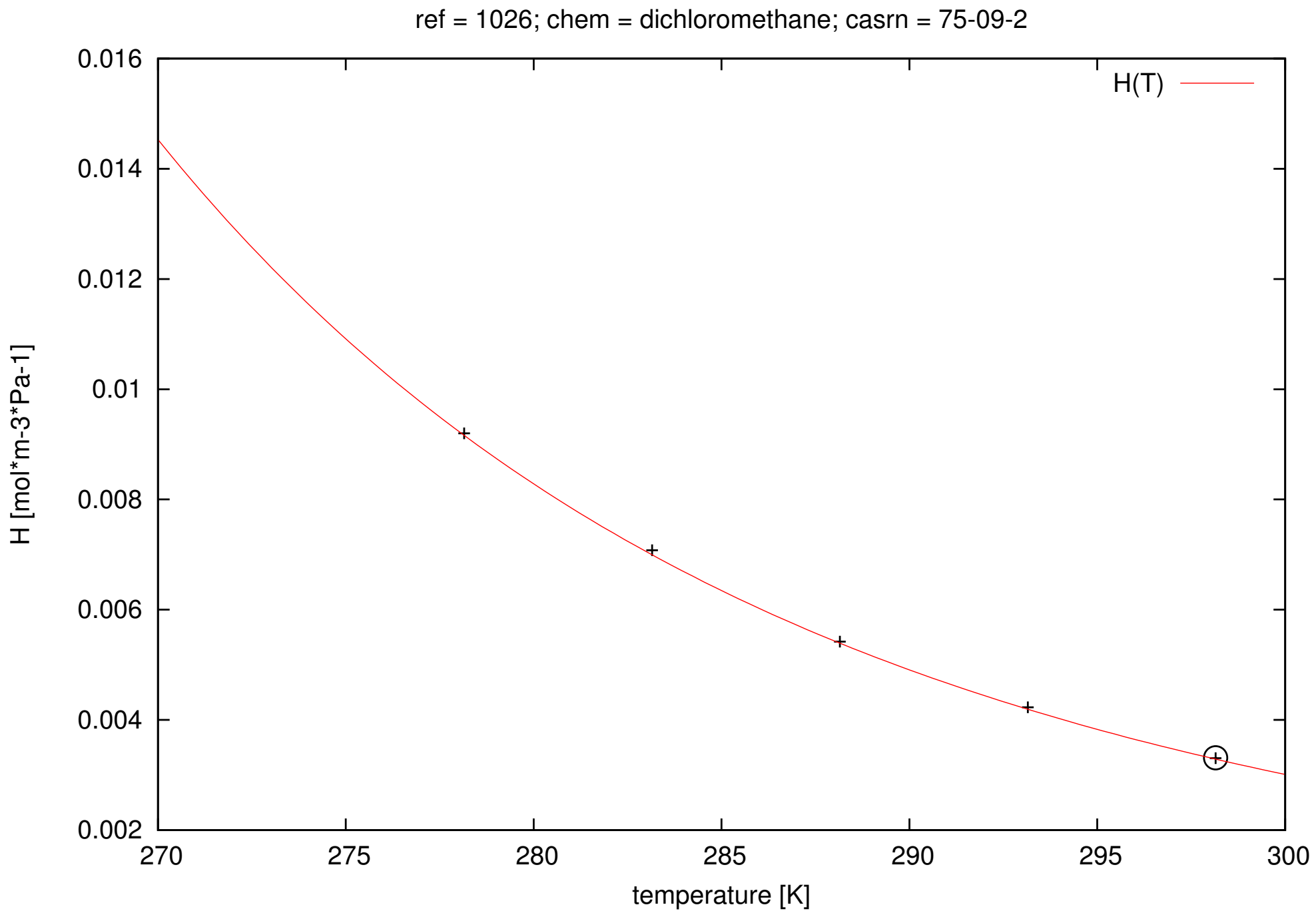

ref = 985; chem = 1-phenylethanone; casrn = 98-86-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0
2
4
6
8
10
12
14
280
285
290
295
300

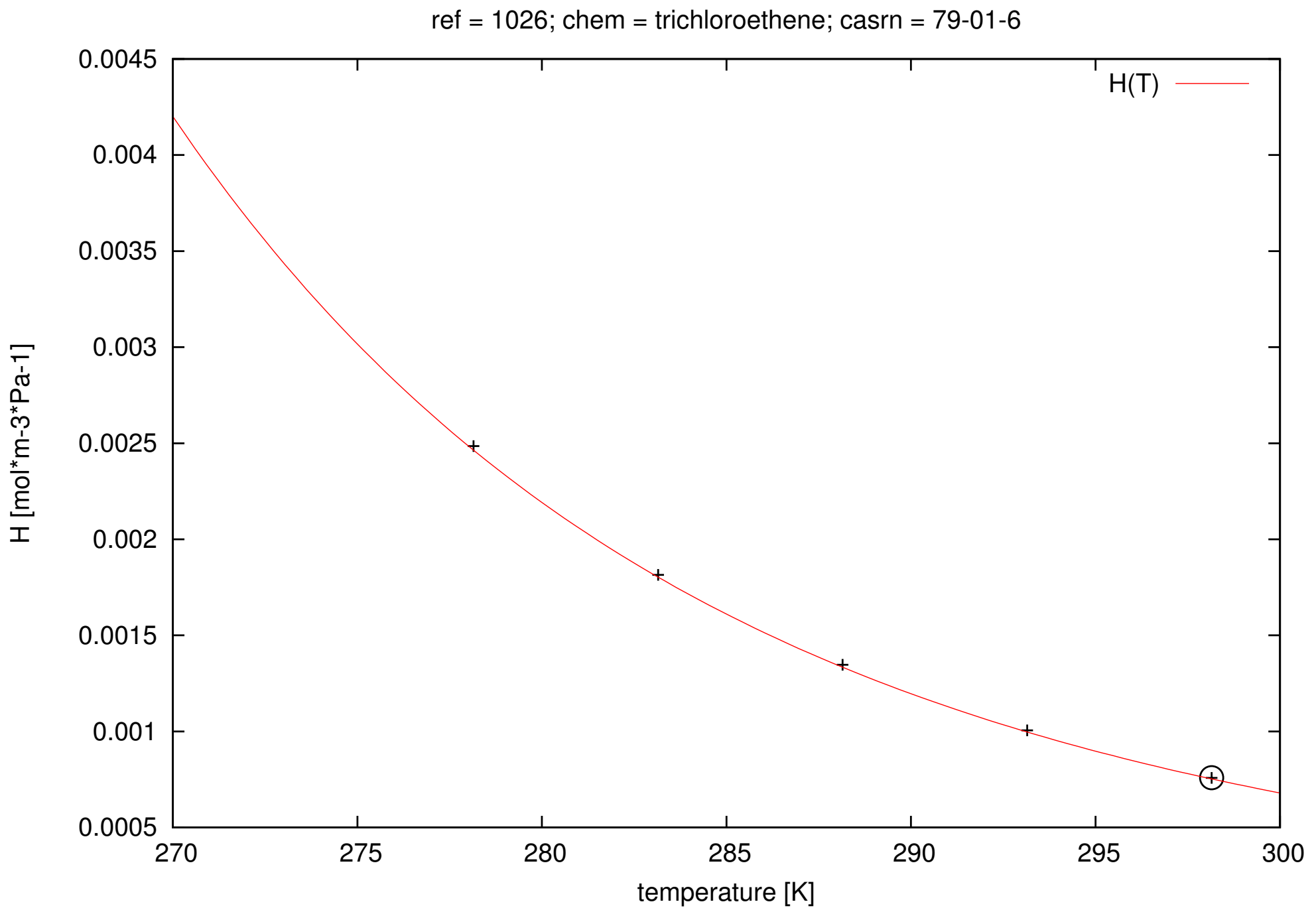

ref = 1014; chem = chlorodifluoromethane; casrn = 75-45-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0
280
290
300
310
320
330
340
350

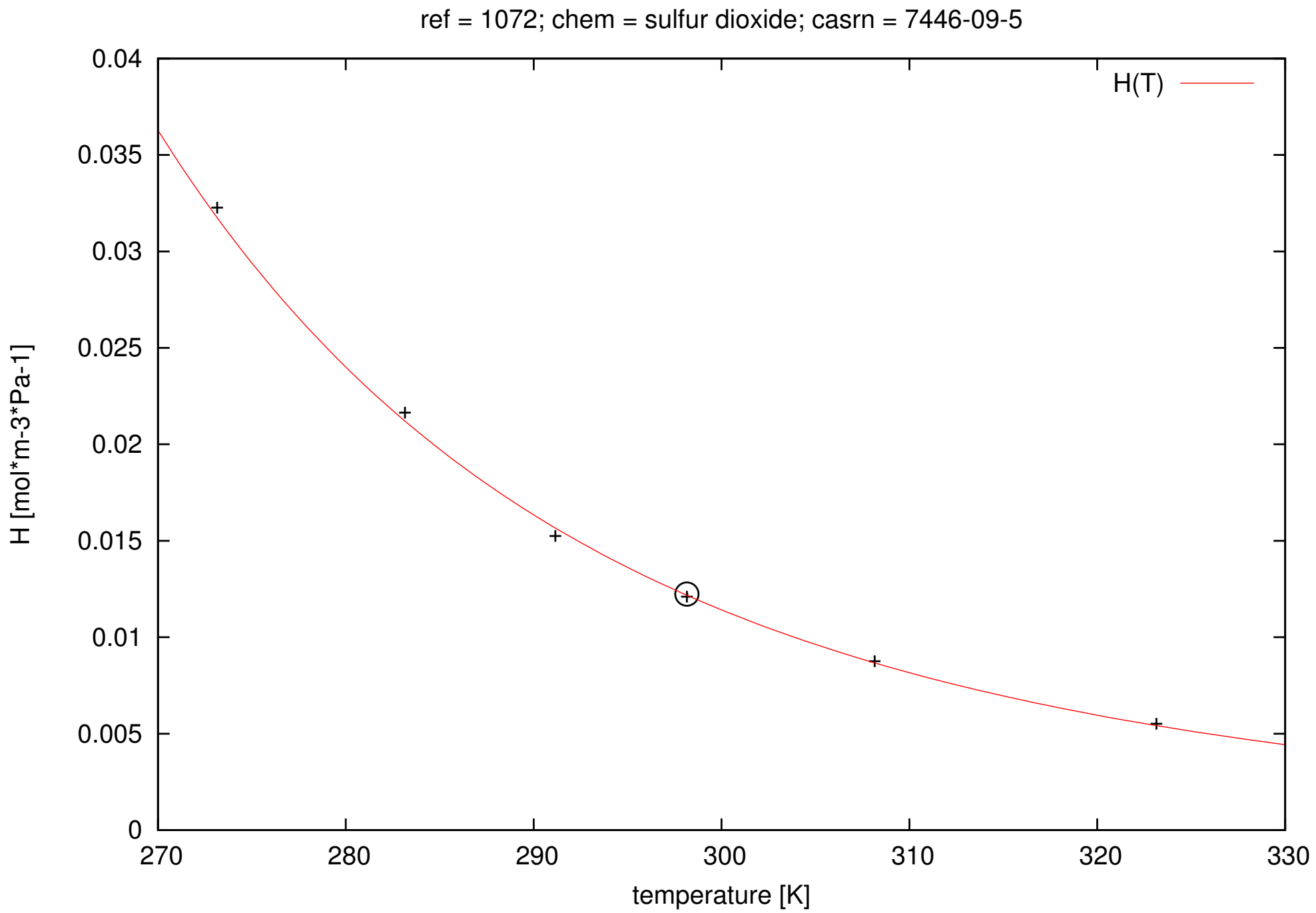

ref = 1026; chem = tetrachloroethene; casrn = 127-18-4
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
270
275
280
285
290
295
300

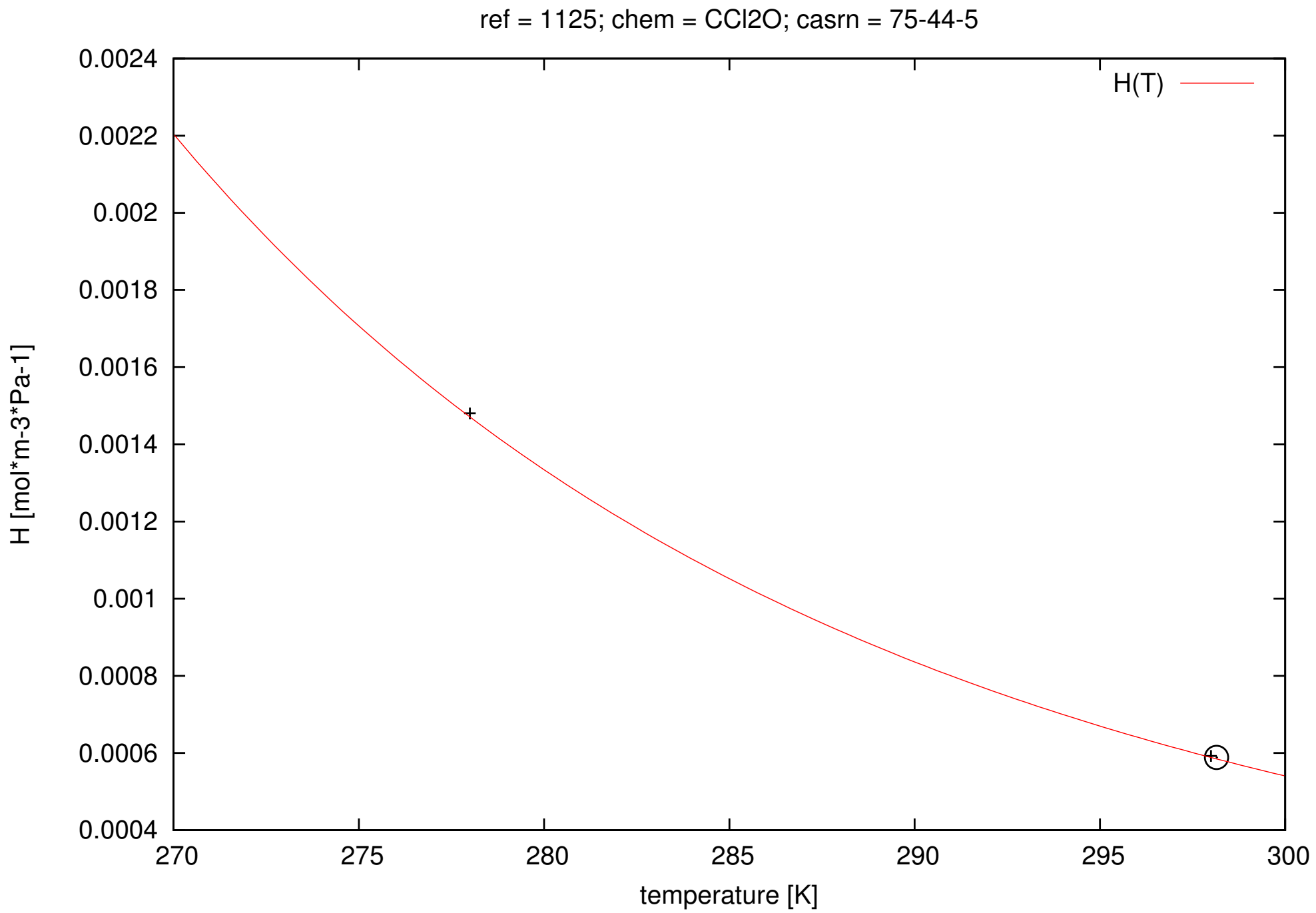

ref = 1026; chem = trichloromethane; casrn = 67-66-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
270
275
280
285
290
295
300

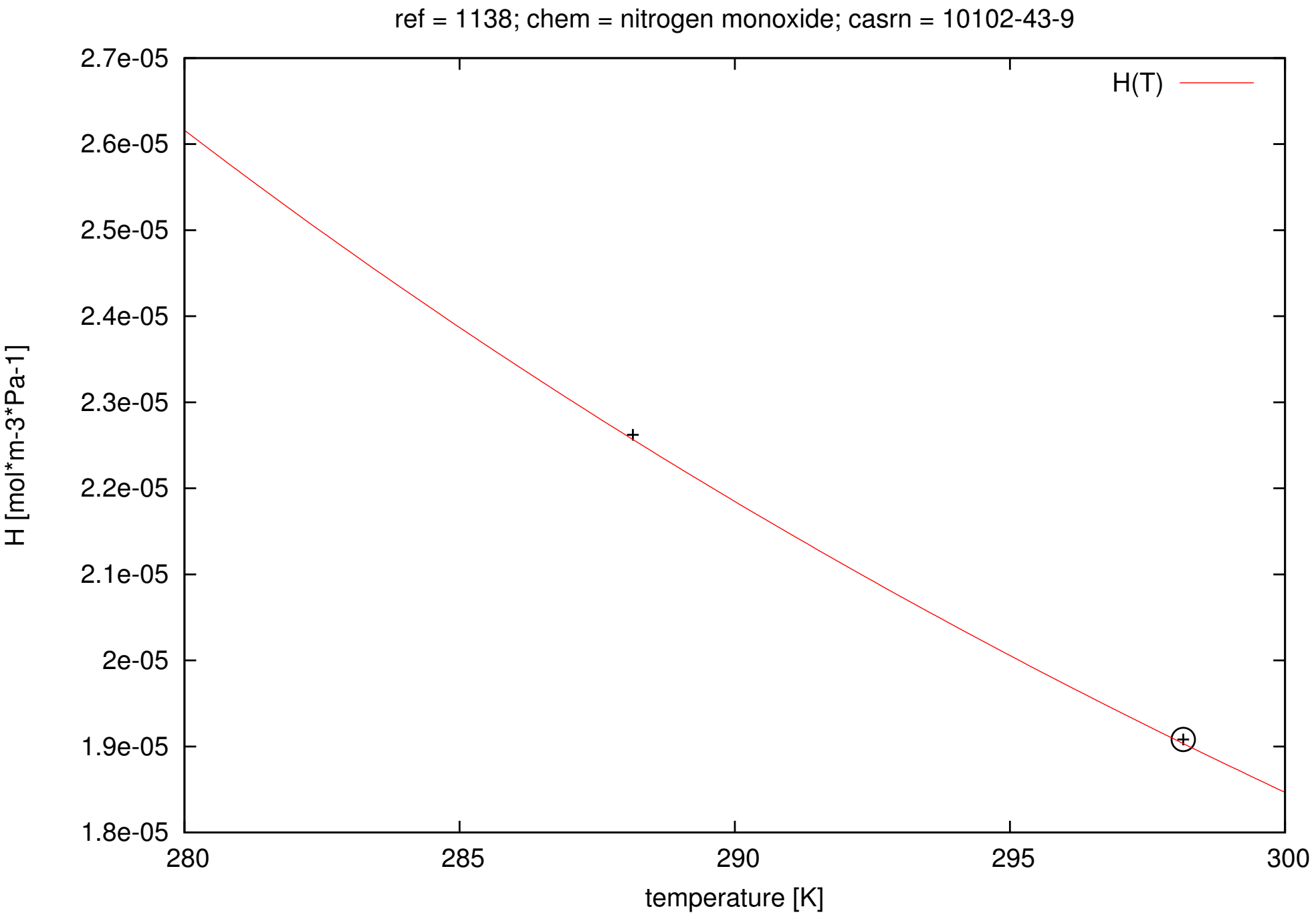

ref = 1026; chem = chloromethane; casrn = 74-87-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
270
275
280
285
290
295
300

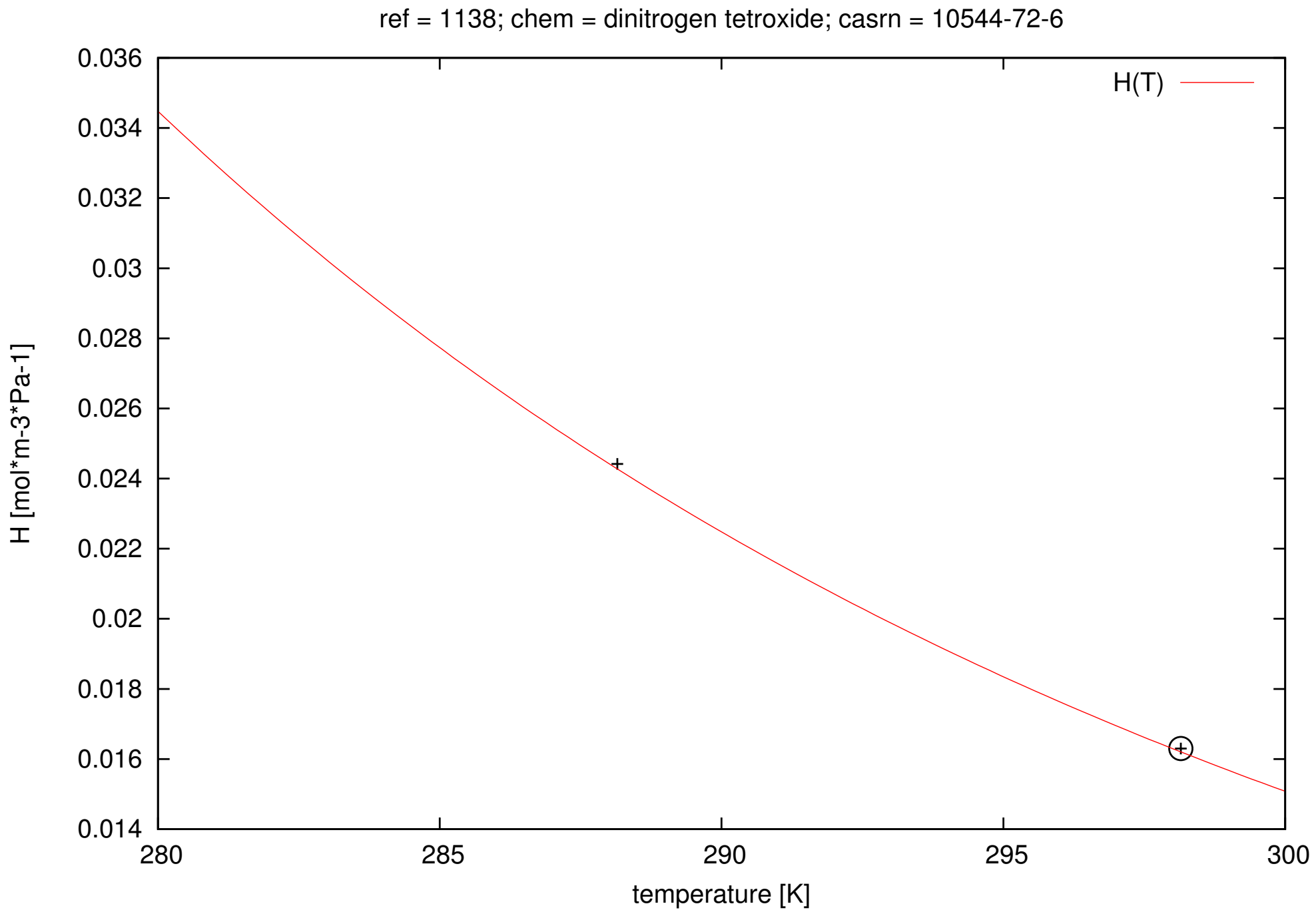

ref = 1026; chem = dichloromethane; casrn = 75-09-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
270
275
280
285
290
295
300

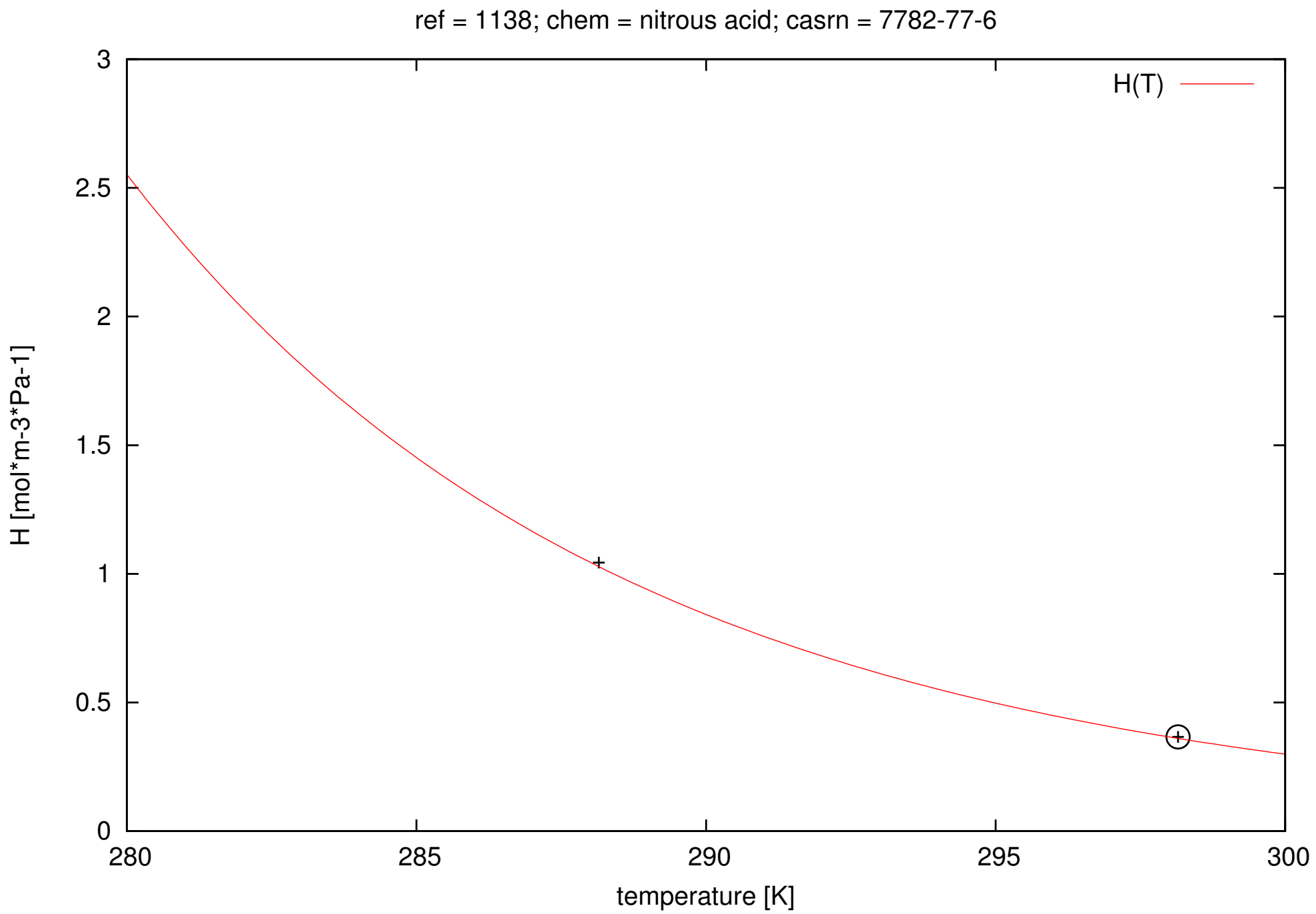

ref = 1026; chem = trichloroethene; casrn = 79-01-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
270
275
280
285
290
295
300

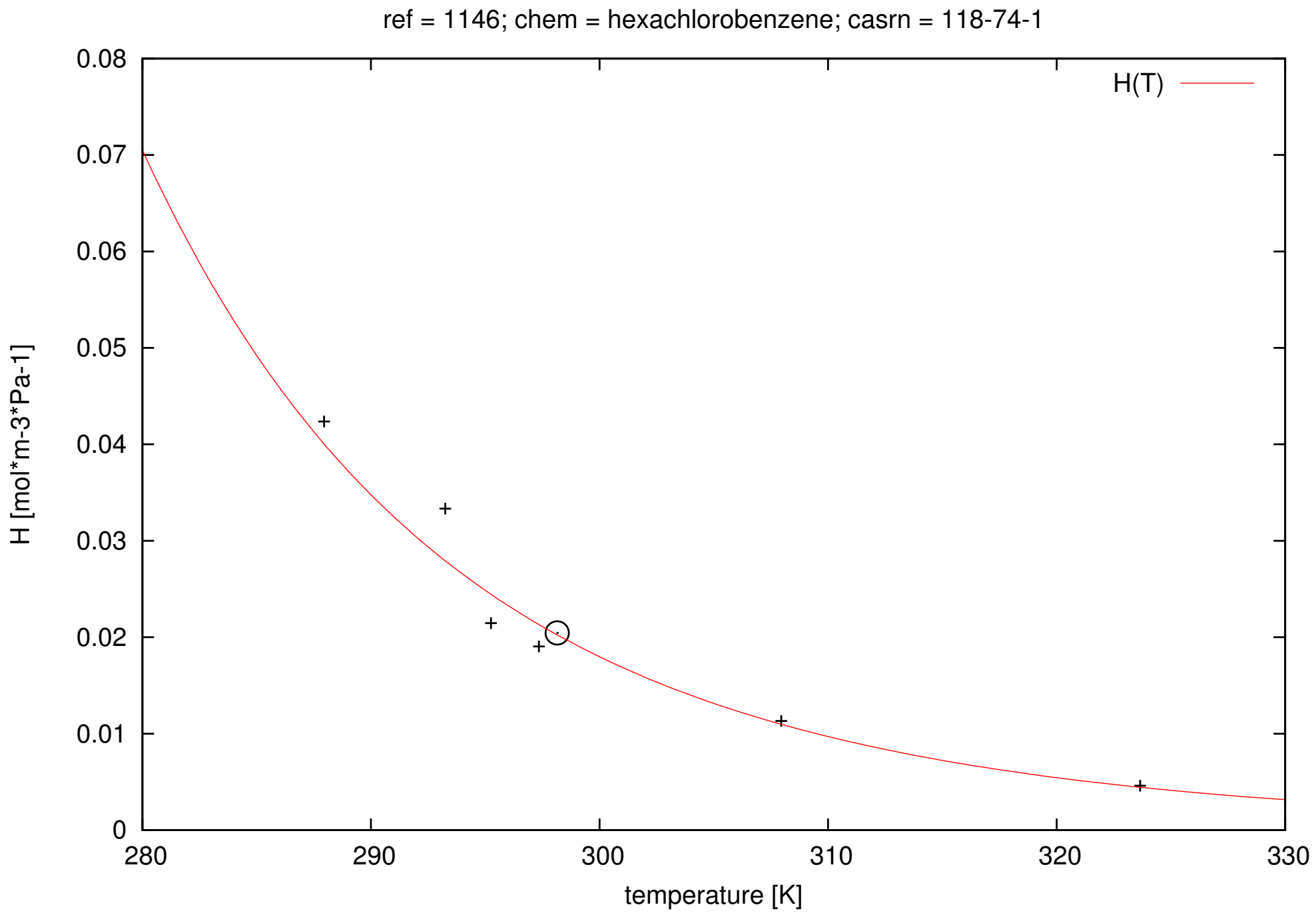

ref = 1072; chem = sulfur dioxide; casrn = 7446-09-5
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
270
280
290
300
310
320
330

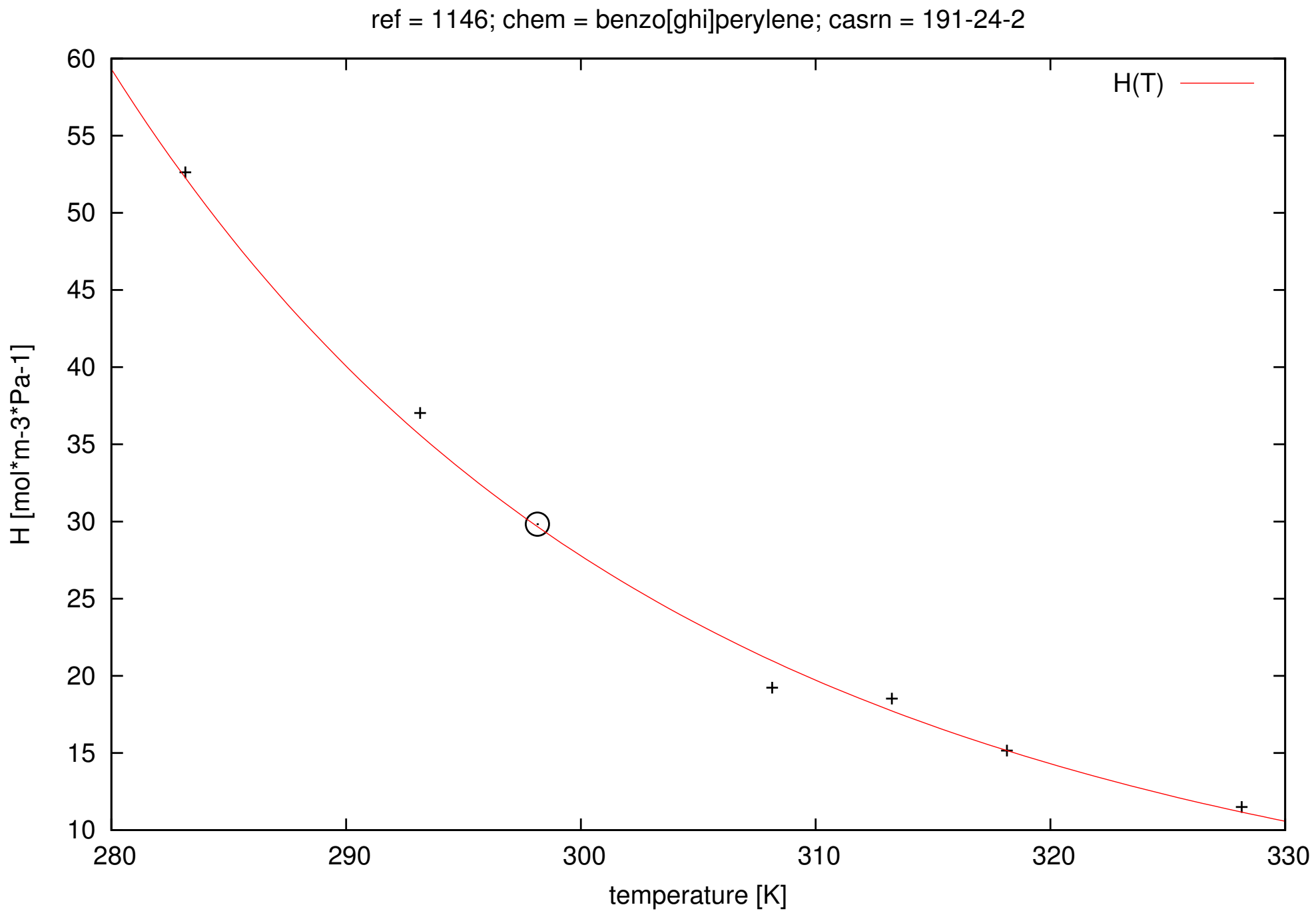

ref = 1125; chem = CCl2O; casrn = 75-44-5
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
270
275
280
285
290
295
300

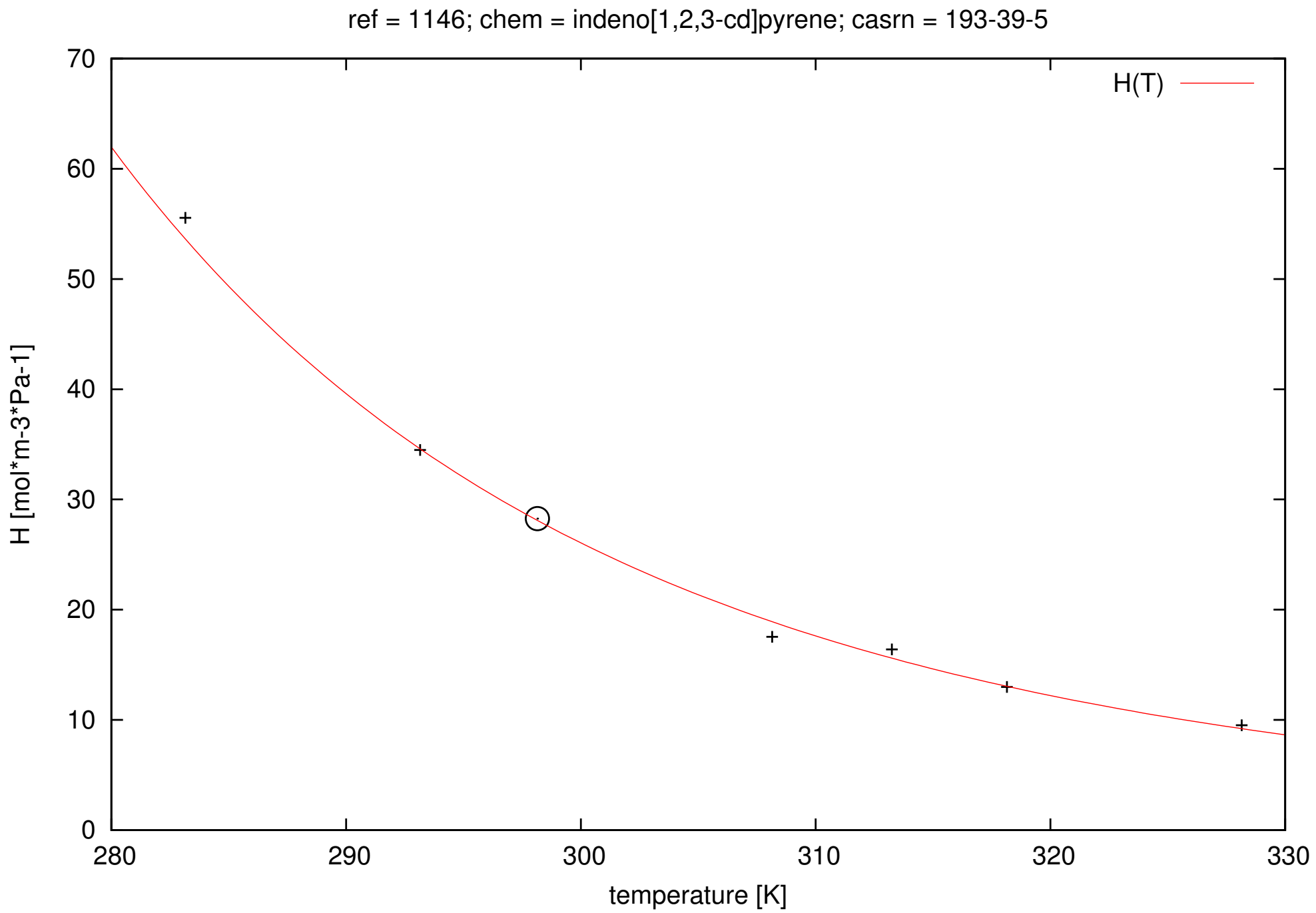

ref = 1138; chem = nitrogen monoxide; casrn = 10102-43-9
H(T)
H [mol*m-3*Pa-1]
temperature [K]
2.7e-05
2.6e-05
2.5e-05
2.4e-05
2.3e-05
2.2e-05
2.1e-05
2e-05
1.9e-05
1.8e-05
280
285
290
295
300

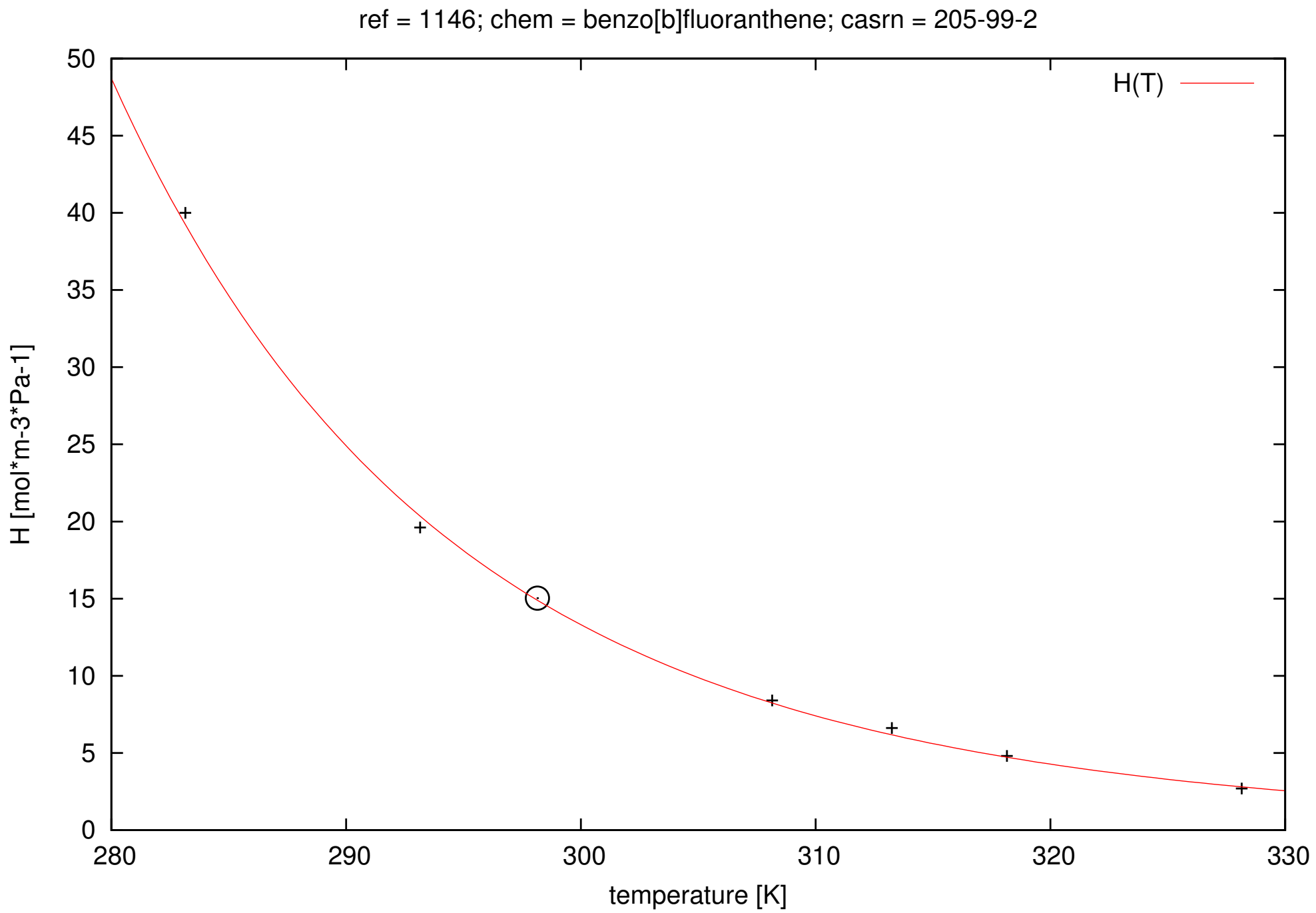

ref = 1138; chem = dinitrogen tetroxide; casrn = 10544-72-6
H(T)
H [mol*m-3*Pa-1]
0.036
0.034
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
280
285
290
295
300
temperature [K]

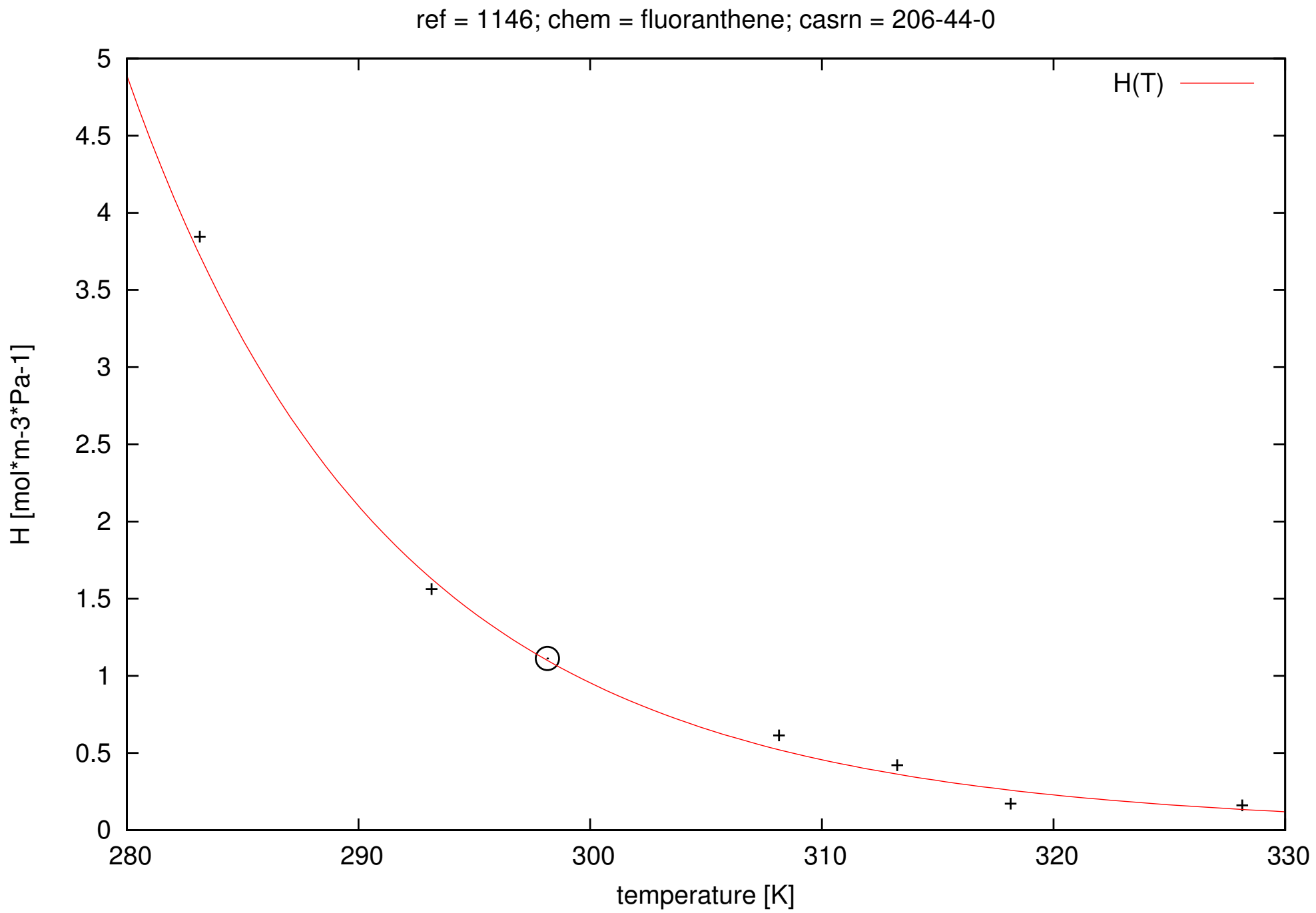

ref = 1138; chem = nitrous acid; casrn = 7782-77-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0
0.5
1
1.5
2
2.5
3
280
285
290
295
300

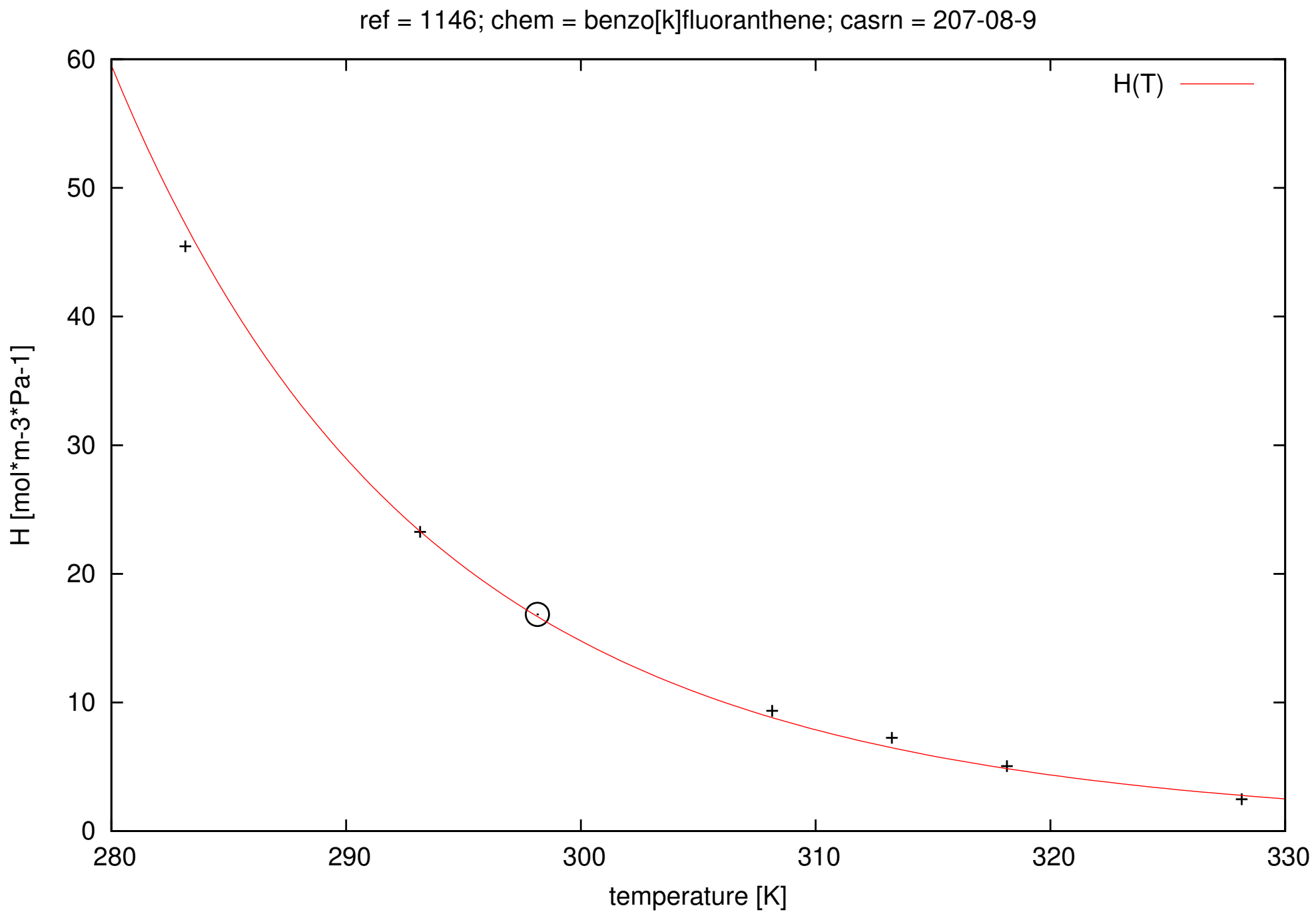

ref = 1146; chem = hexachlorobenzene; casrn = 118-74-1
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
280
290
300
310
320
330

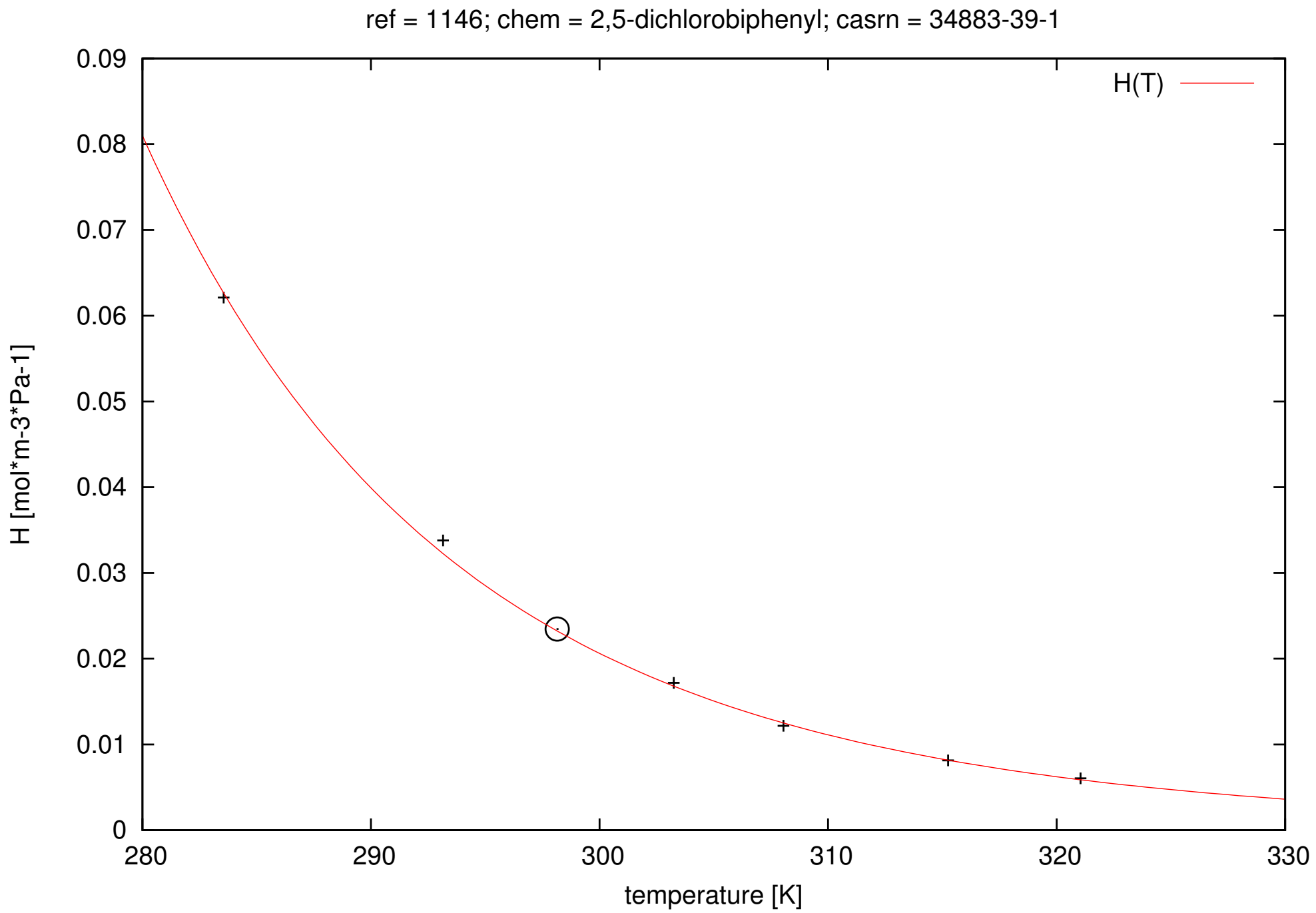

ref = 1146; chem = benzo[ghi]perylene; casrn = 191-24-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
60
55
50
45
40
35
30
25
20
15
10
280
290
300
310
320
330

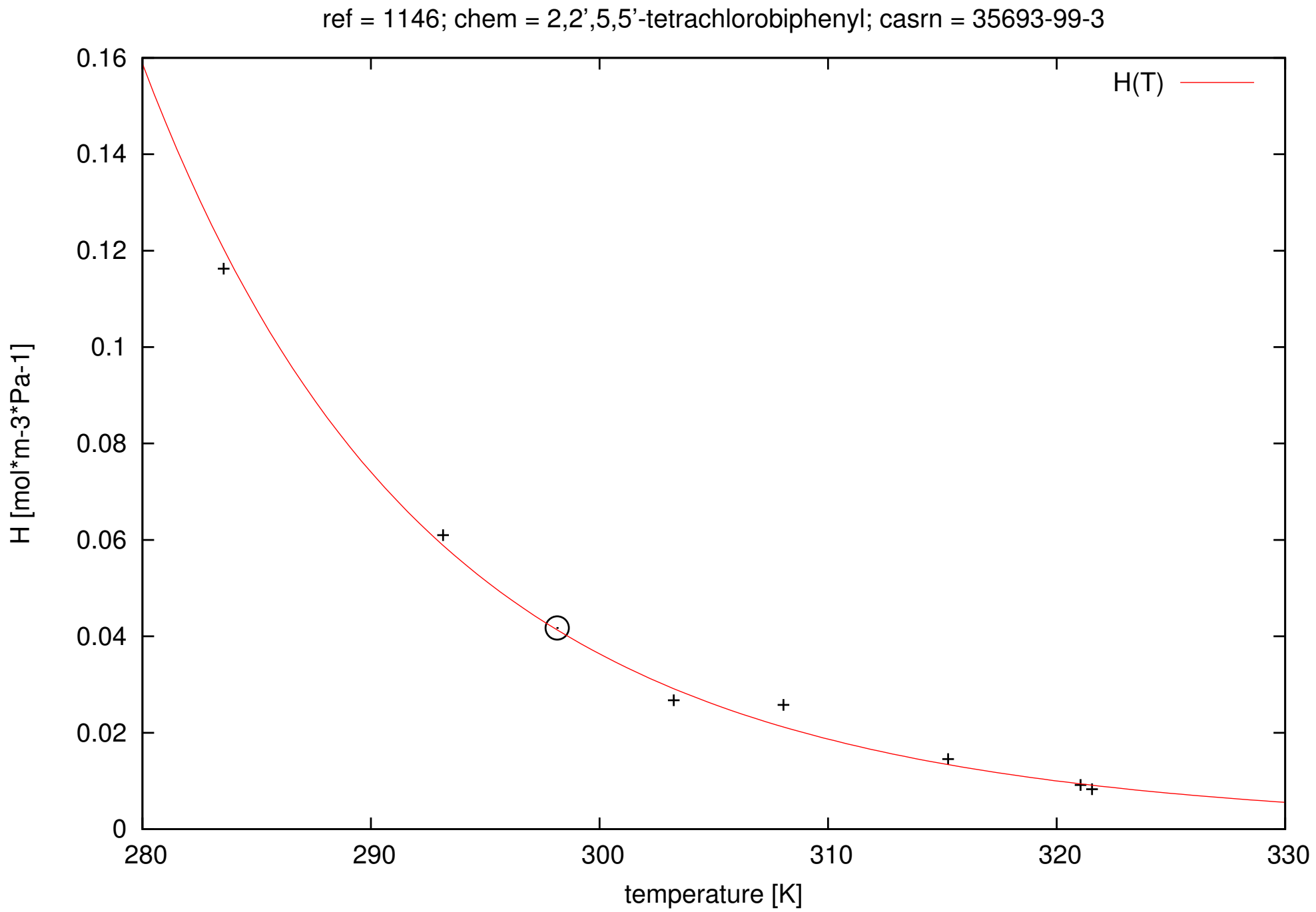

ref = 1146; chem = indeno[1,2,3-cd]pyrene; casrn = 193-39-5
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0
10
20
30
40
50
60
70
280
290
300
310
320
330

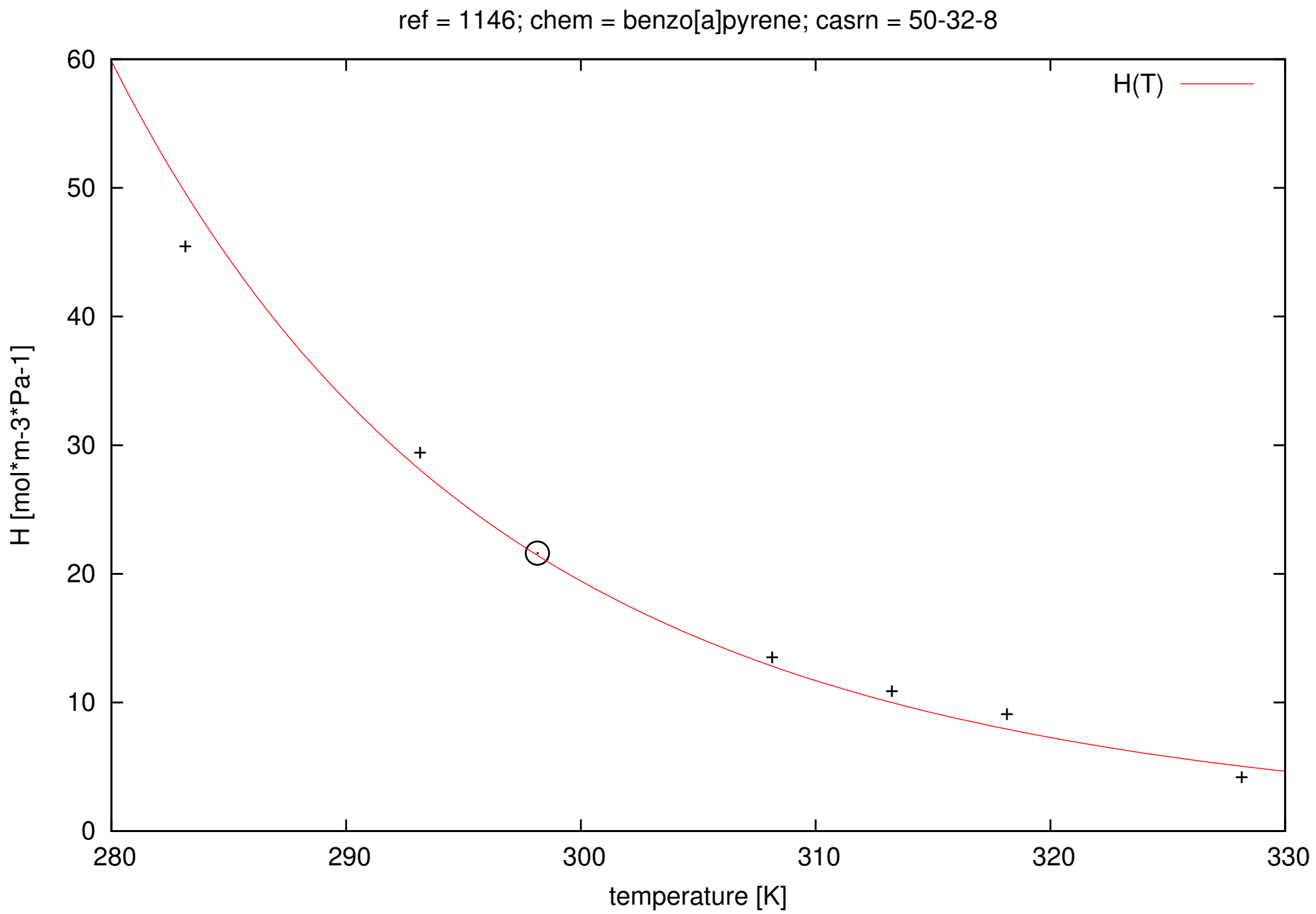

ref = 1146; chem = benzo[b]fluoranthene; casrn = 205-99-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0
5
10
15
20
25
30
35
40
45
50
280
290
300
310
320
330

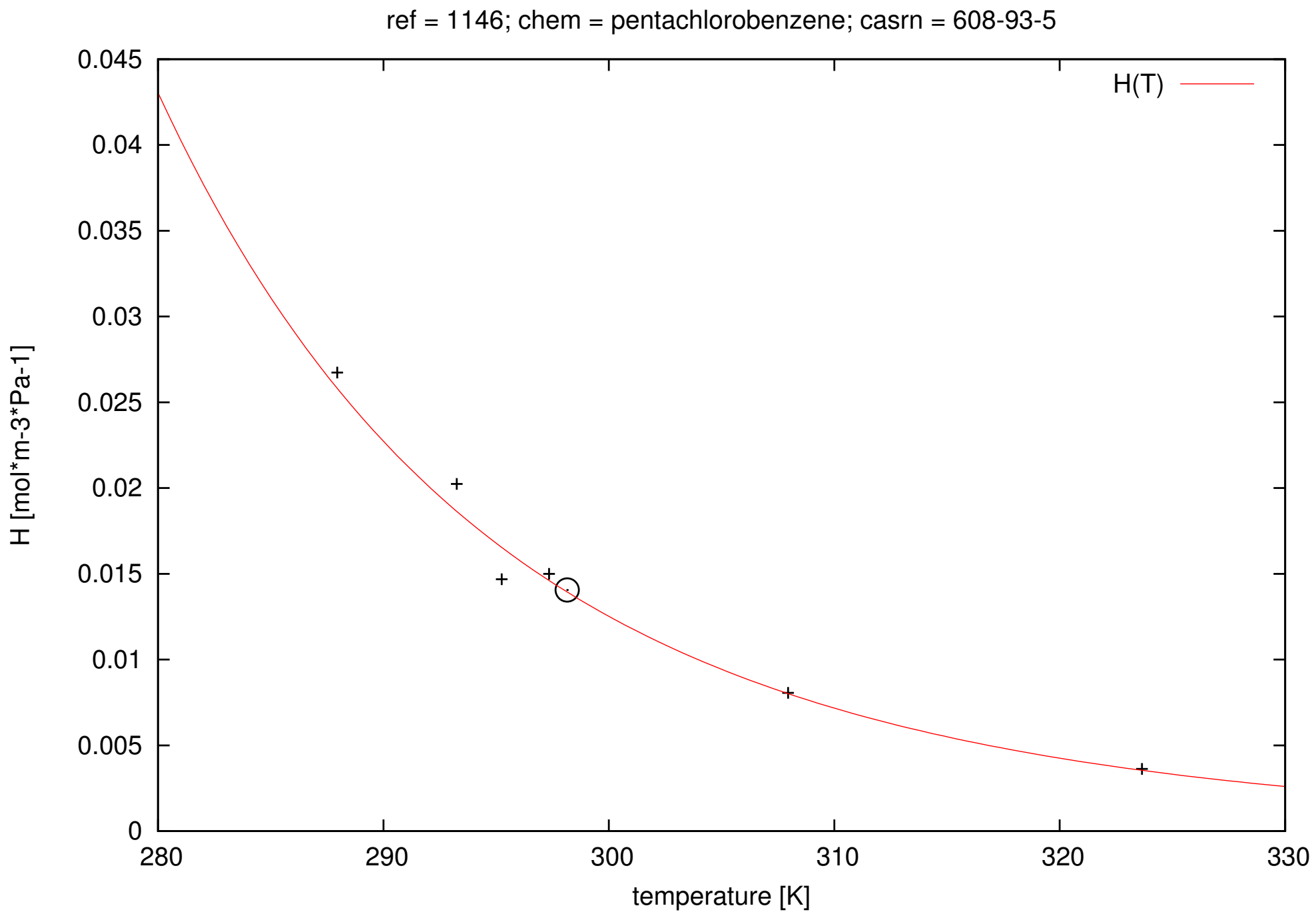

ref = 1146; chem = fluoranthene; casrn = 206-44-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
280
290
300
310
320
330

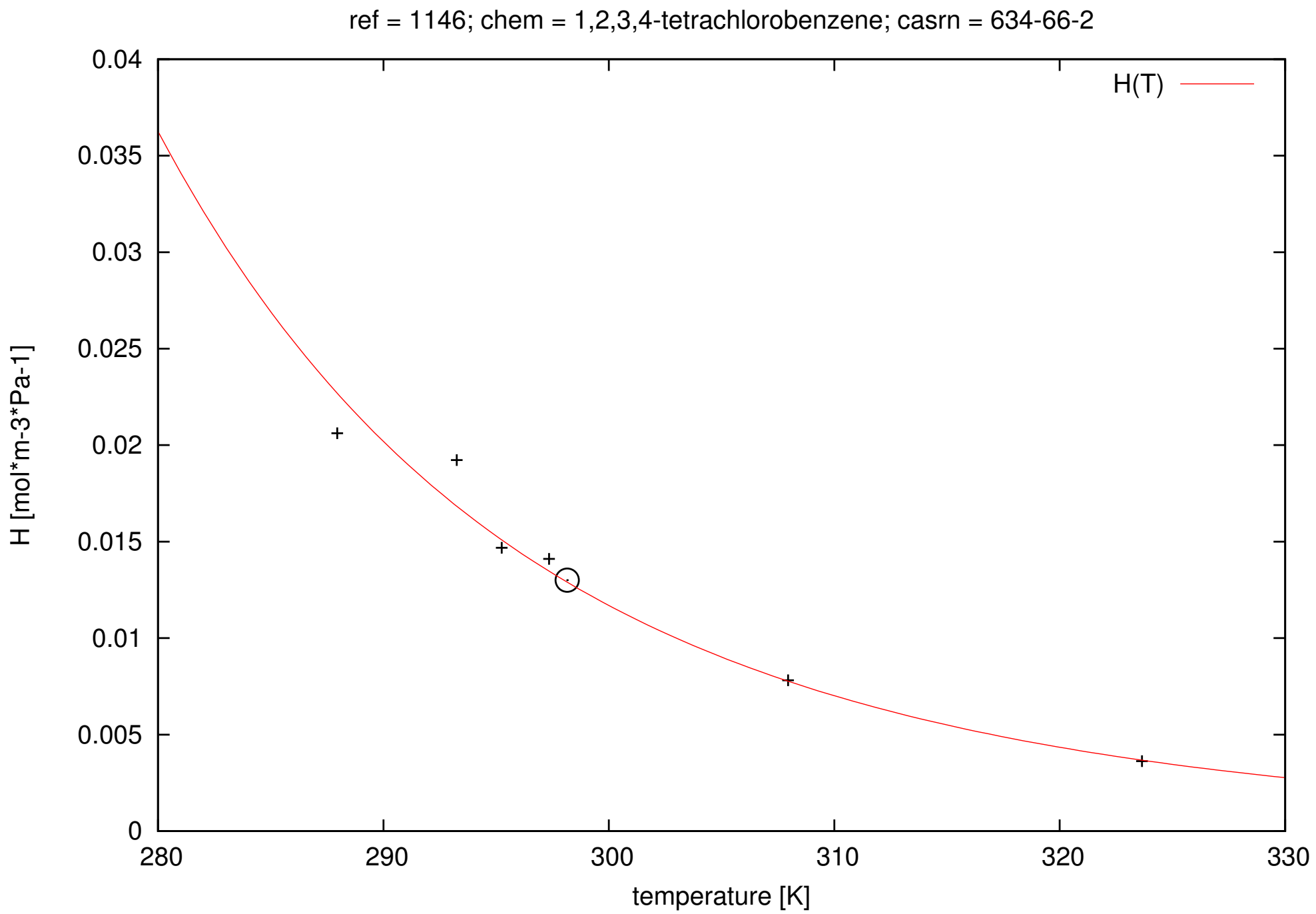

ref = 1146; chem = benzo[k]fluoranthene; casrn = 207-08-9
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0
10
20
30
40
50
60
280
290
300
310
320
330

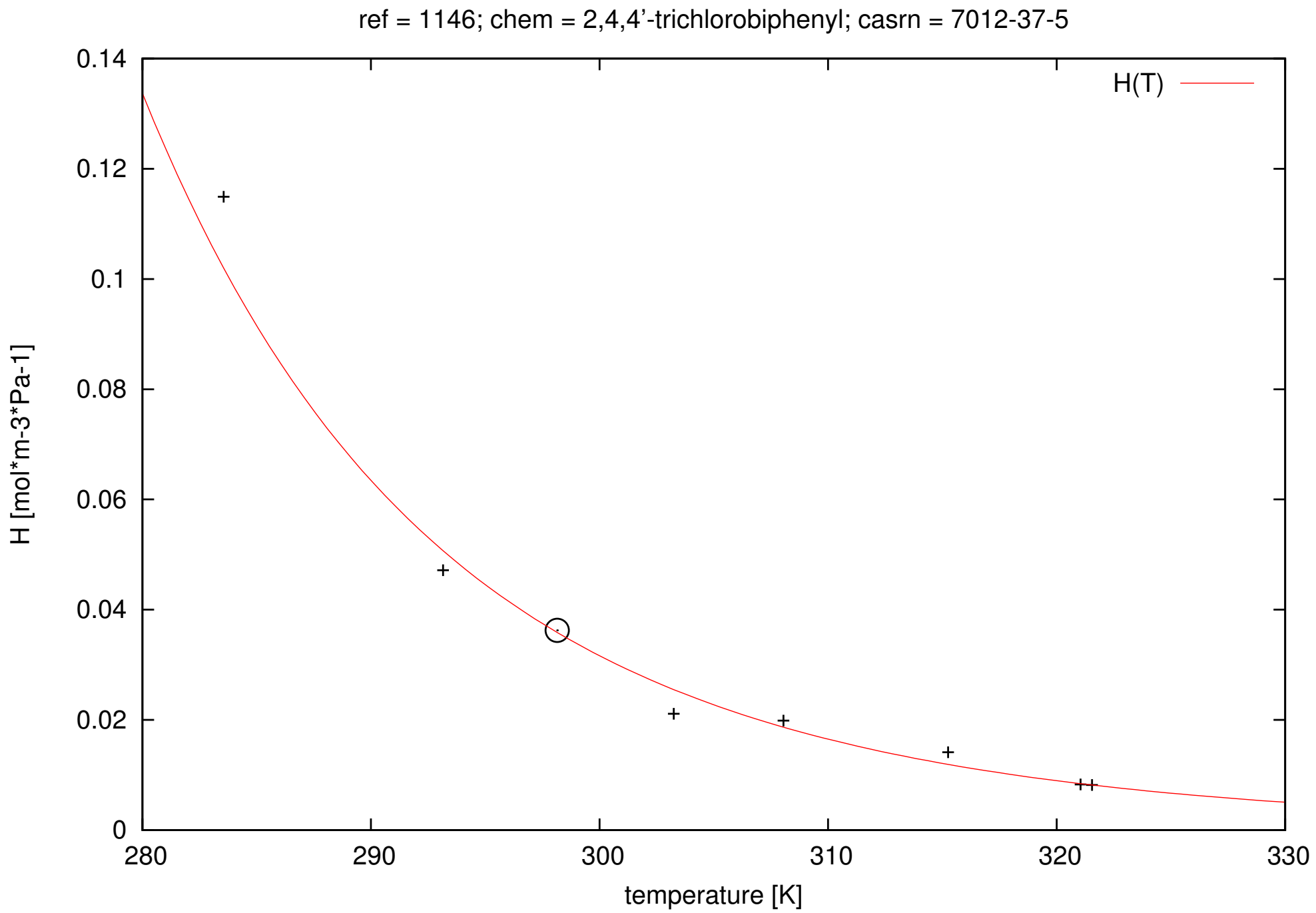

ref = 1146; chem = 2,5-dichlorobiphenyl; casrn = 34883-39-1
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
280
290
300
310
320
330

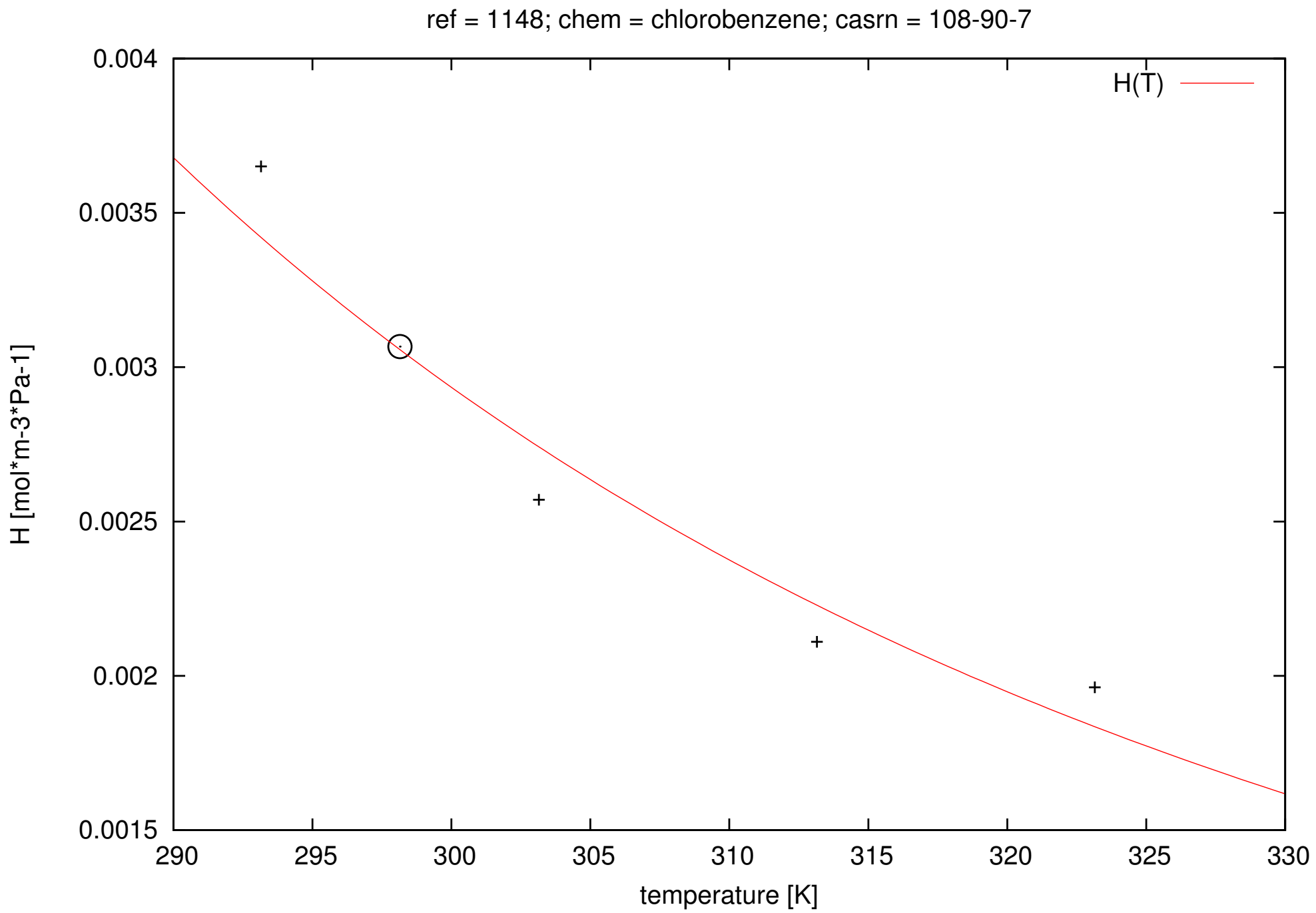

ref = 1146; chem = 2,2',5,5'-tetrachlorobiphenyl; casrn = 35693-99-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
280
290
300
310
320
330

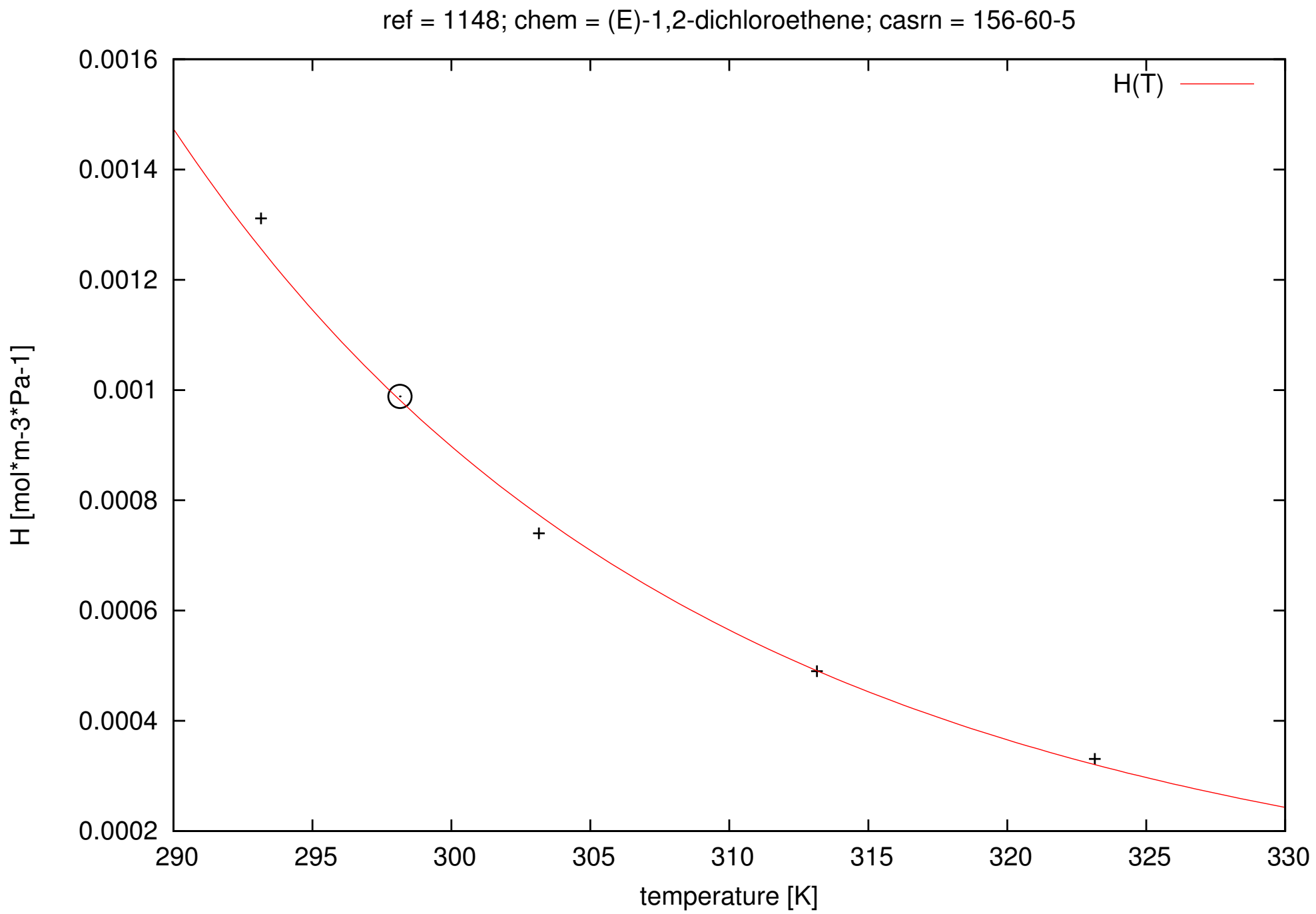

ref = 1146; chem = benzo[a]pyrene; casrn = 50-32-8
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0
10
20
30
40
50
60
280
290
300
310
320
330

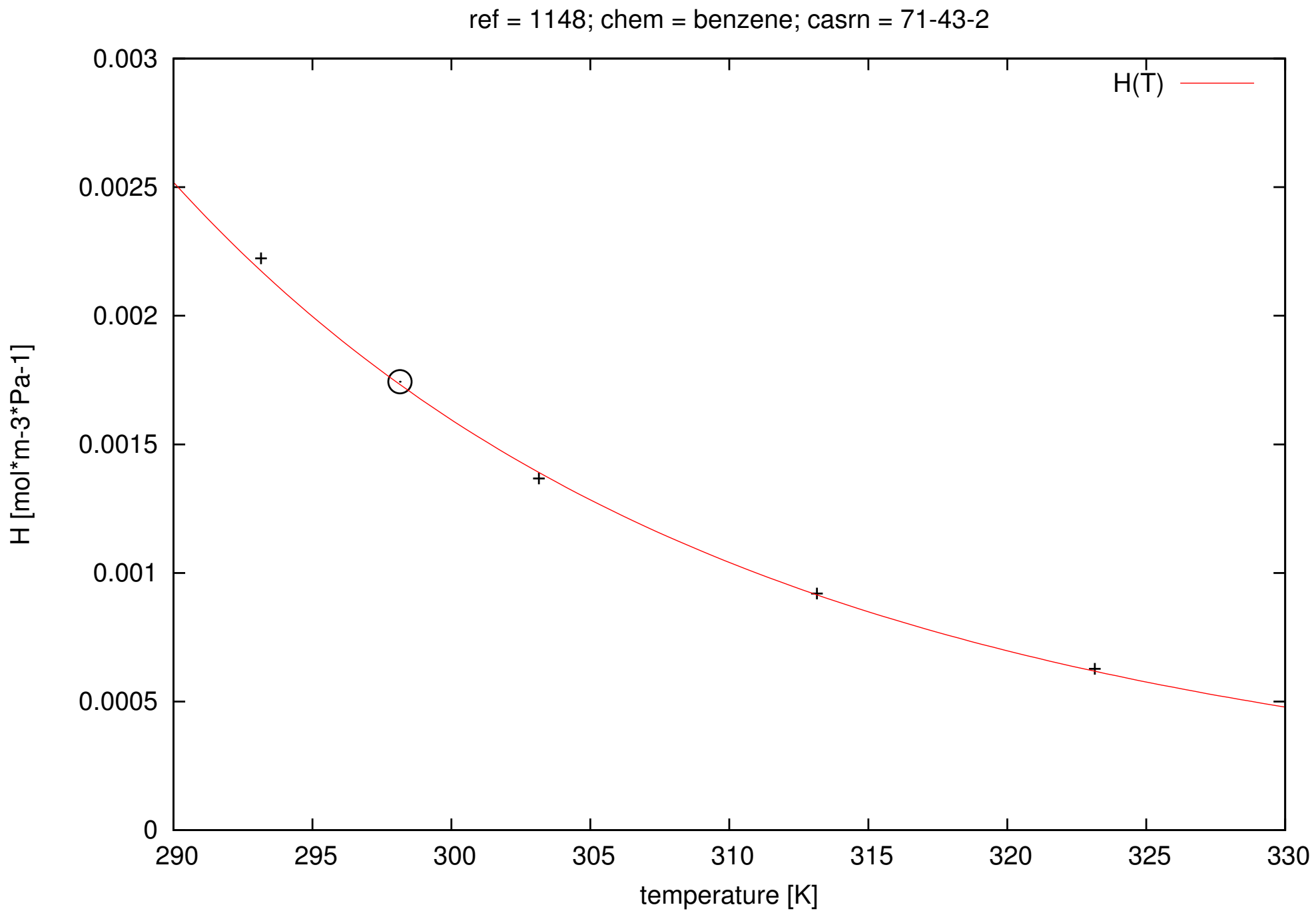

ref = 1146; chem = pentachlorobenzene; casrn = 608-93-5
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
280
290
300
310
320
330

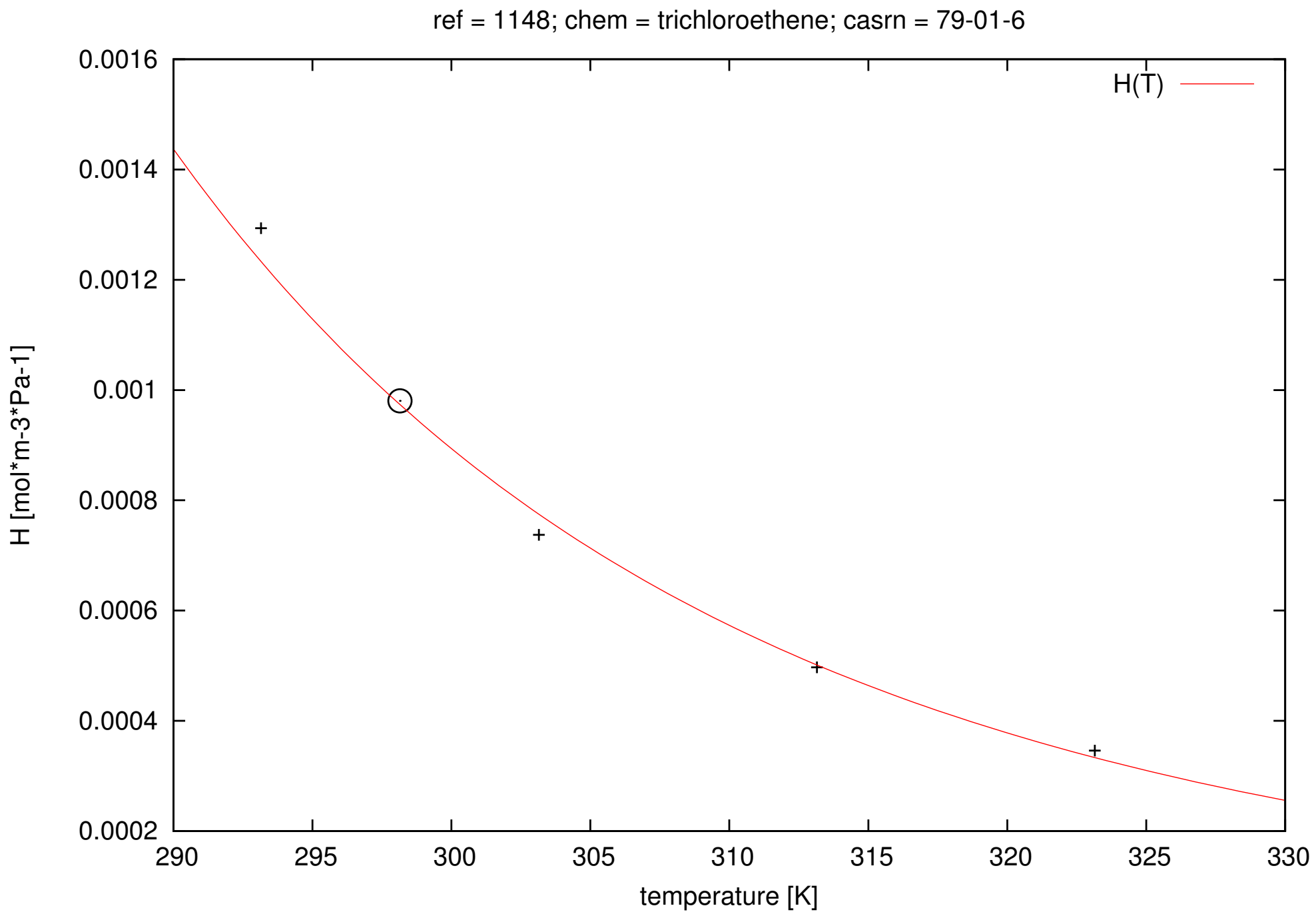

ref = 1146; chem = 1,2,3,4-tetrachlorobenzene; casrn = 634-66-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
280
290
300
310
320
330

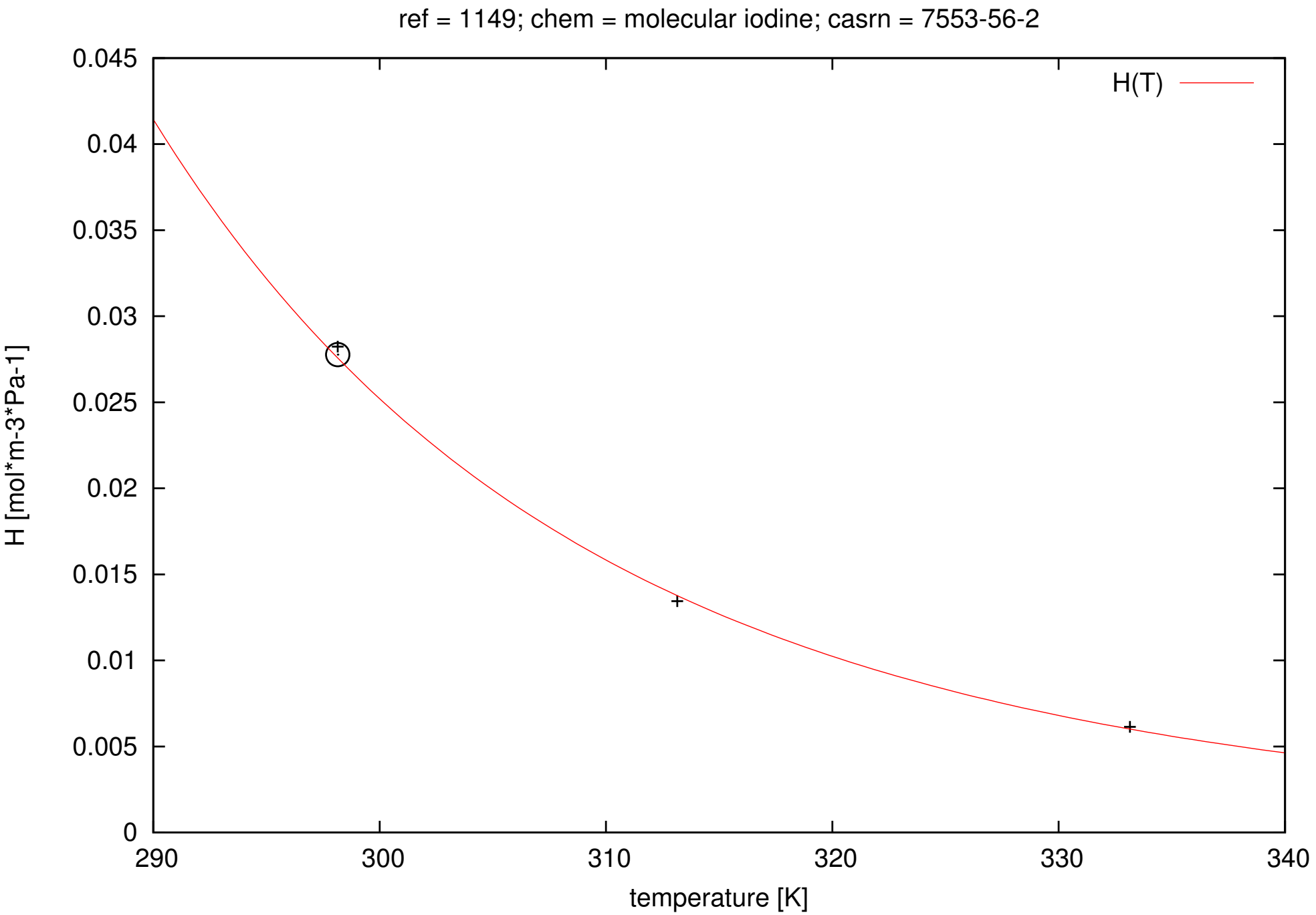

ref = 1146; chem = 2,4,4'-trichlorobiphenyl; casrn = 7012-37-5
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
280
290
300
310
320
330

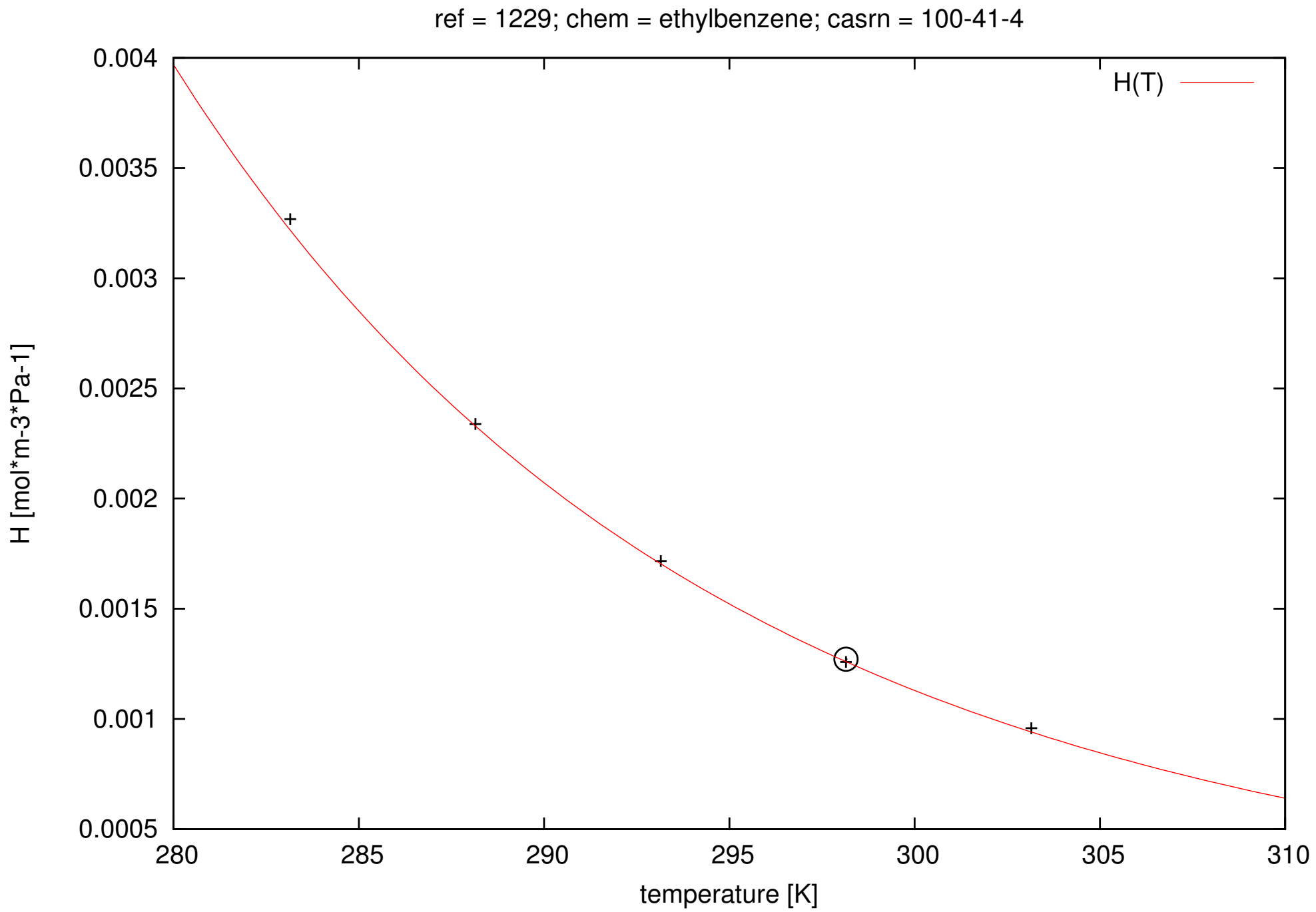

ref = 1148; chem = chlorobenzene; casrn = 108-90-7
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.004
0.0035
0.003
0.0025
0.002
0.0015
290
295
300
305
310
315
320
325
330

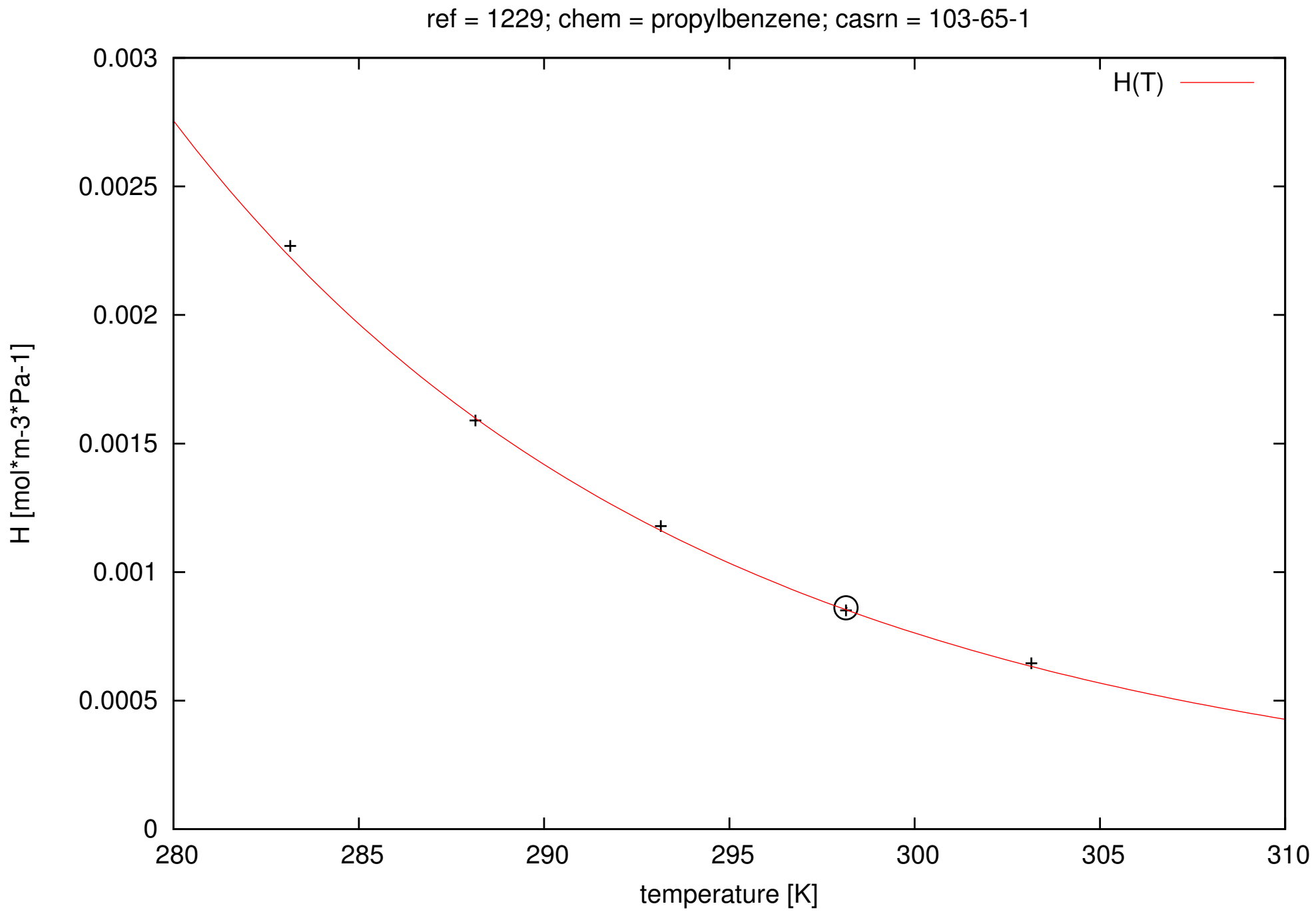

ref = 1148; chem = (E)-1,2-dichloroethene; casrn = 156-60-5
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
290
295
300
305
310
315
320
325
330

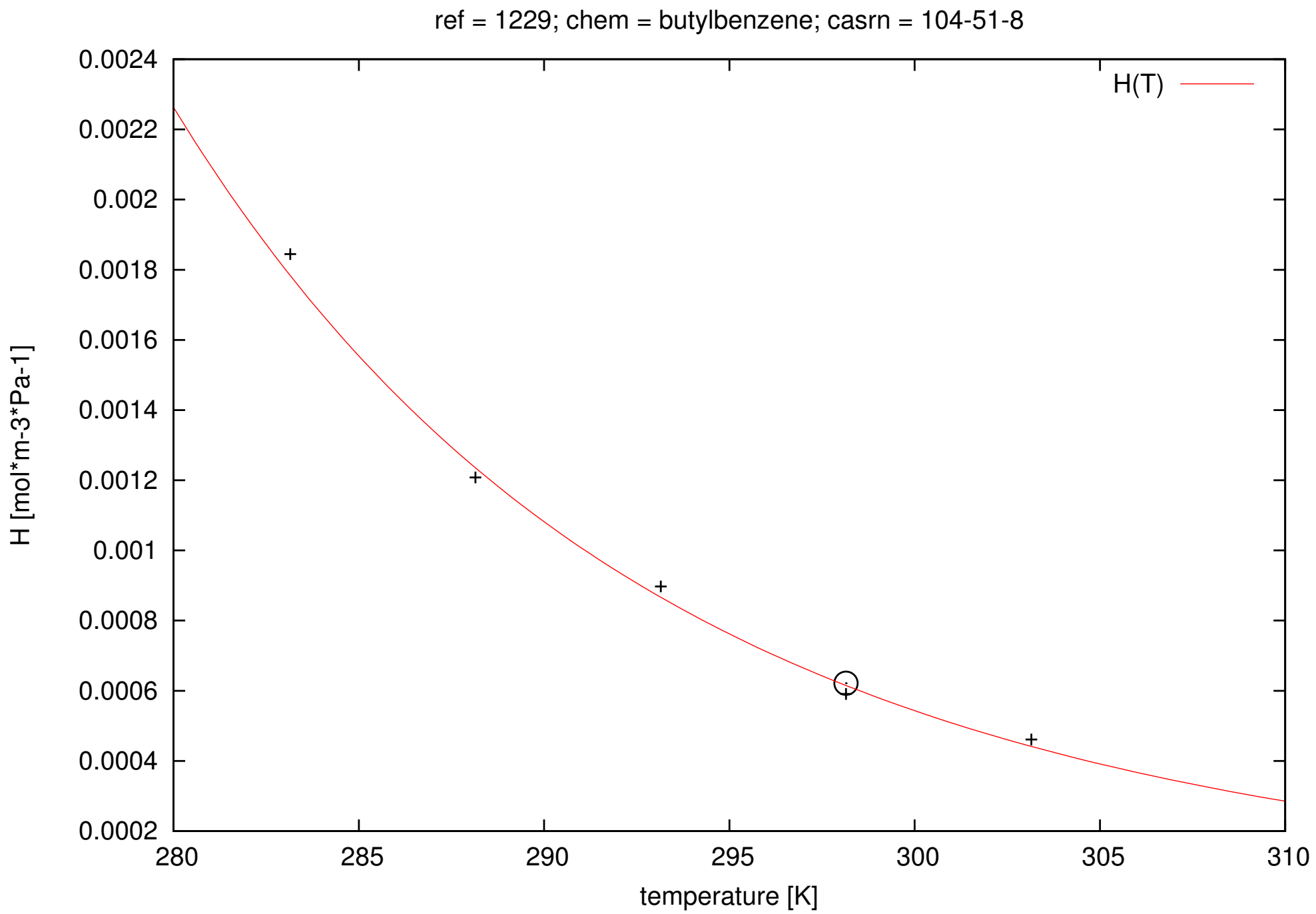

ref = 1148; chem = benzene; casrn = 71-43-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
290
295
300
305
310
315
320
325
330

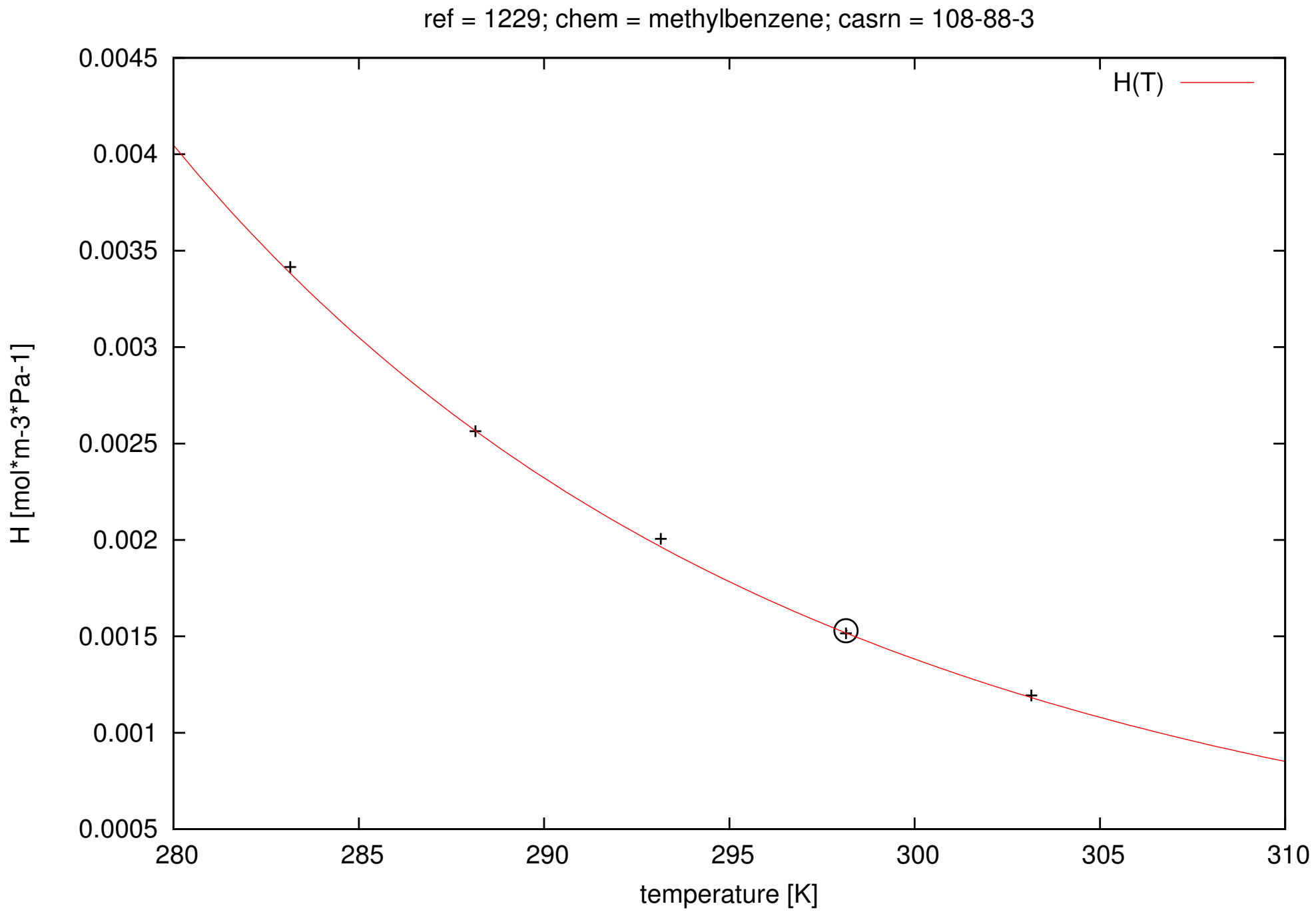

ref = 1148; chem = trichloroethene; casrn = 79-01-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
290
295
300
305
310
315
320
325
330

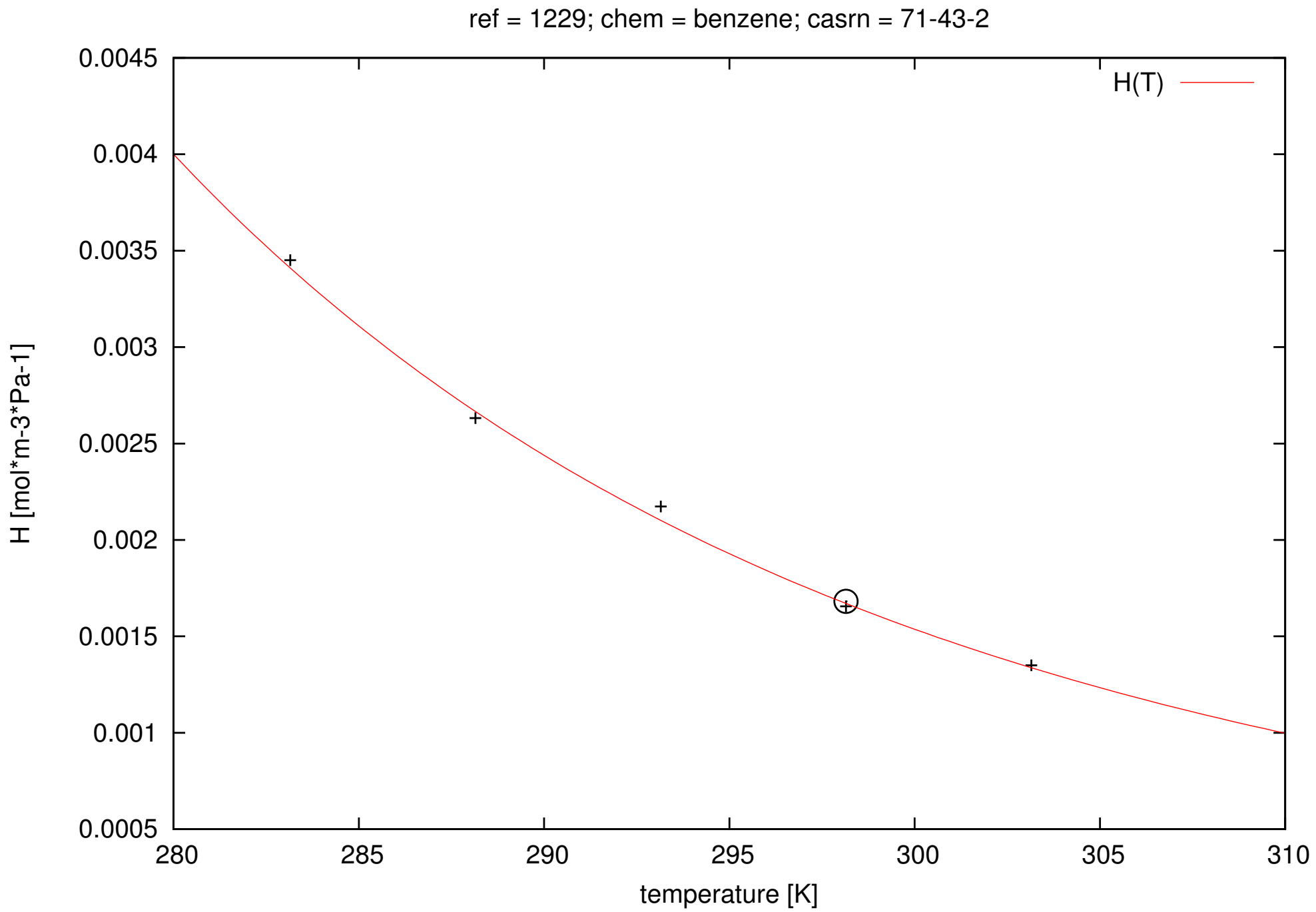

ref = 1149; chem = molecular iodine; casrn = 7553-56-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
290
300
310
320
330
340

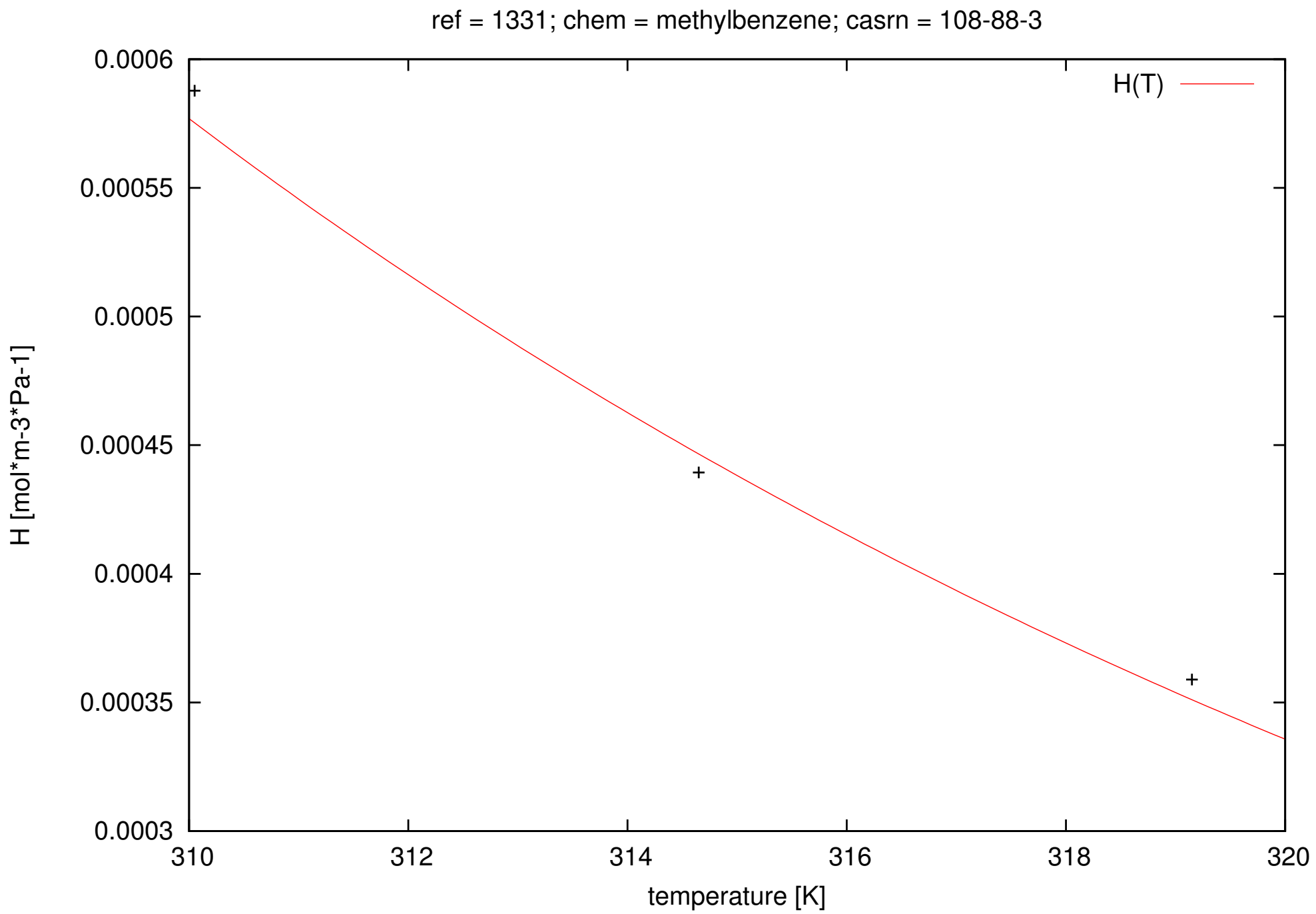

ref = 1229; chem = ethylbenzene; casrn = 100-41-4
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
280
285
290
295
300
305
310

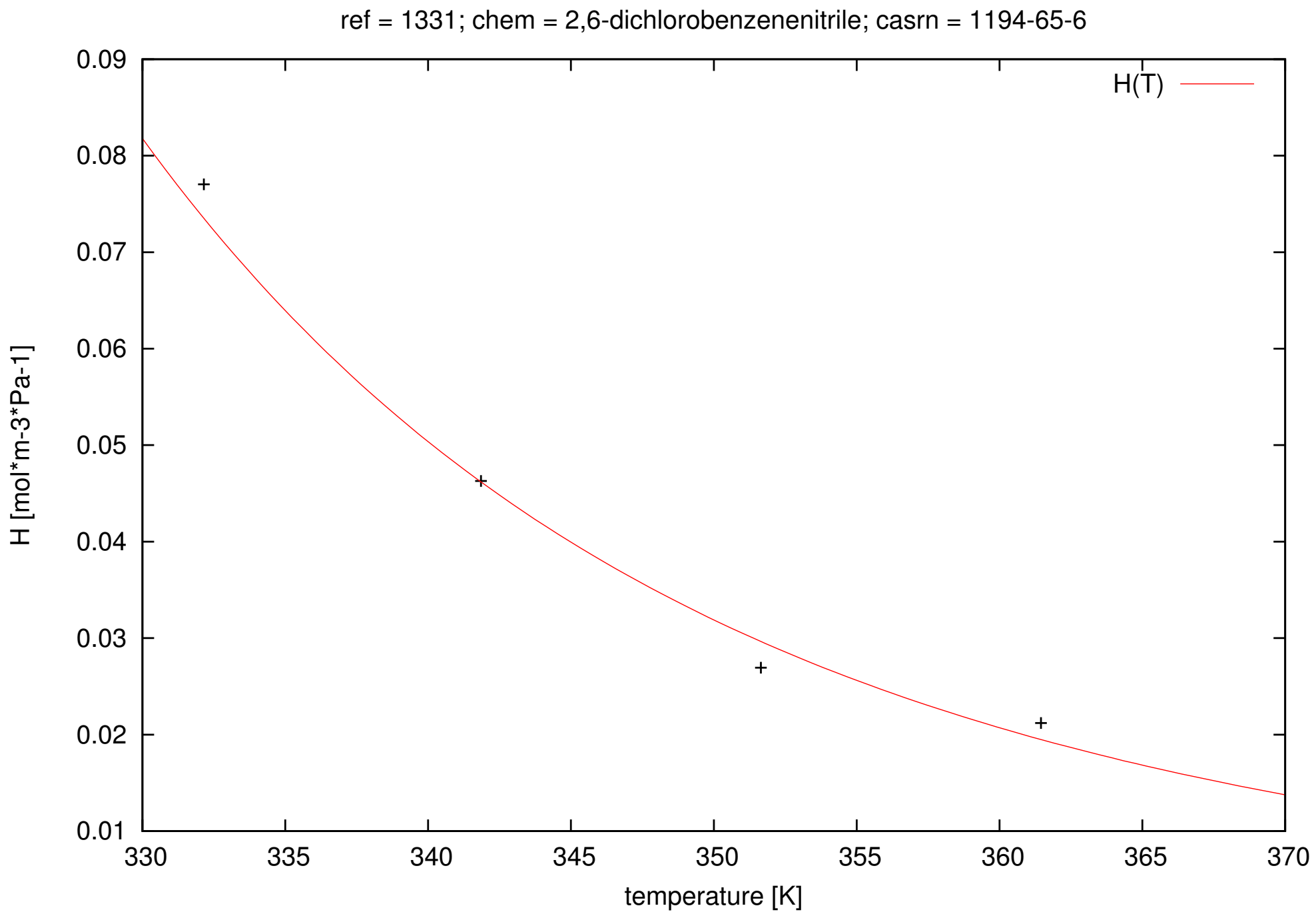

ref = 1229; chem = propylbenzene; casrn = 103-65-1
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
280
285
290
295
300
305
310

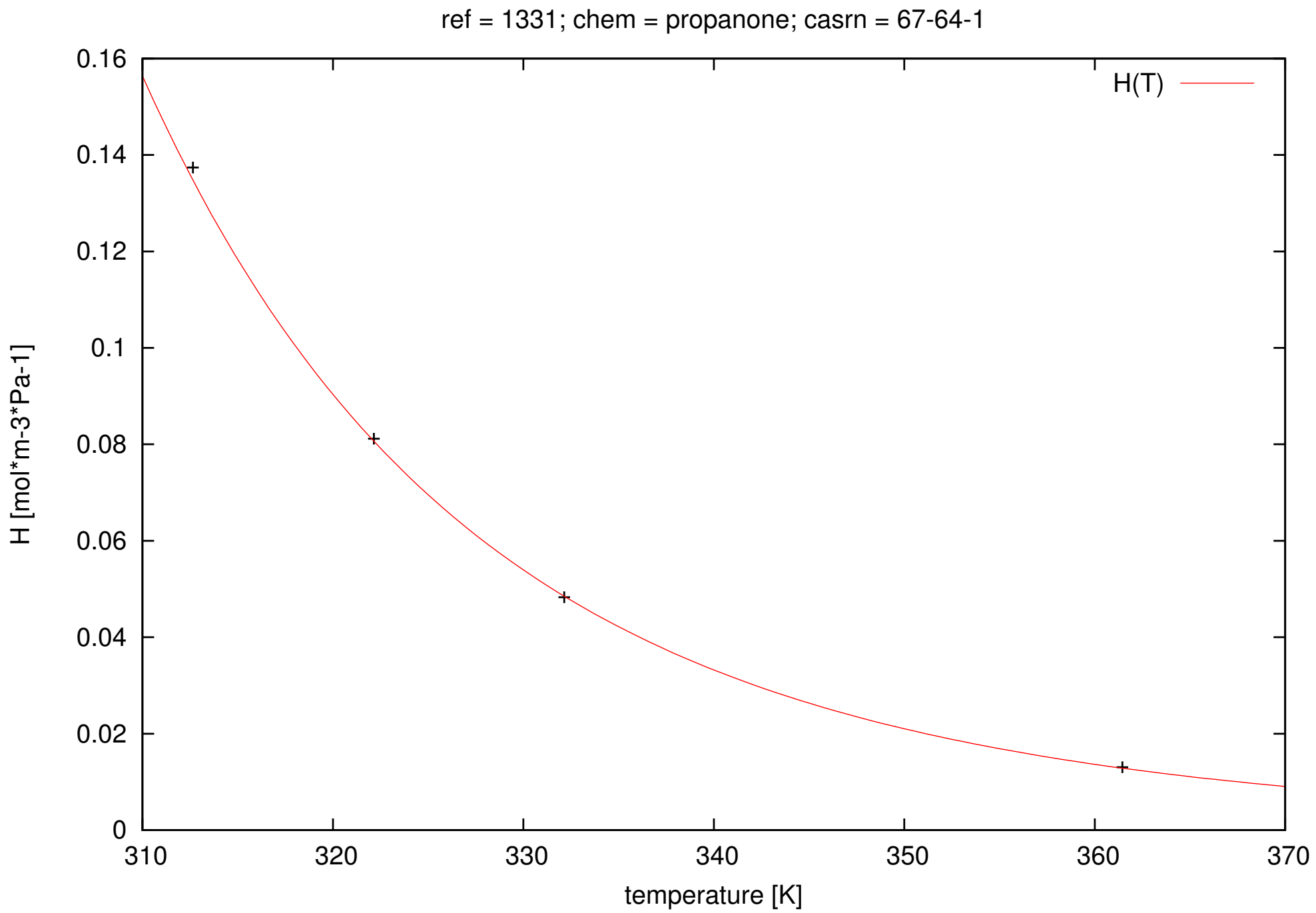

ref = 1229; chem = butylbenzene; casrn = 104-51-8
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
280
285
290
295
300
305
310

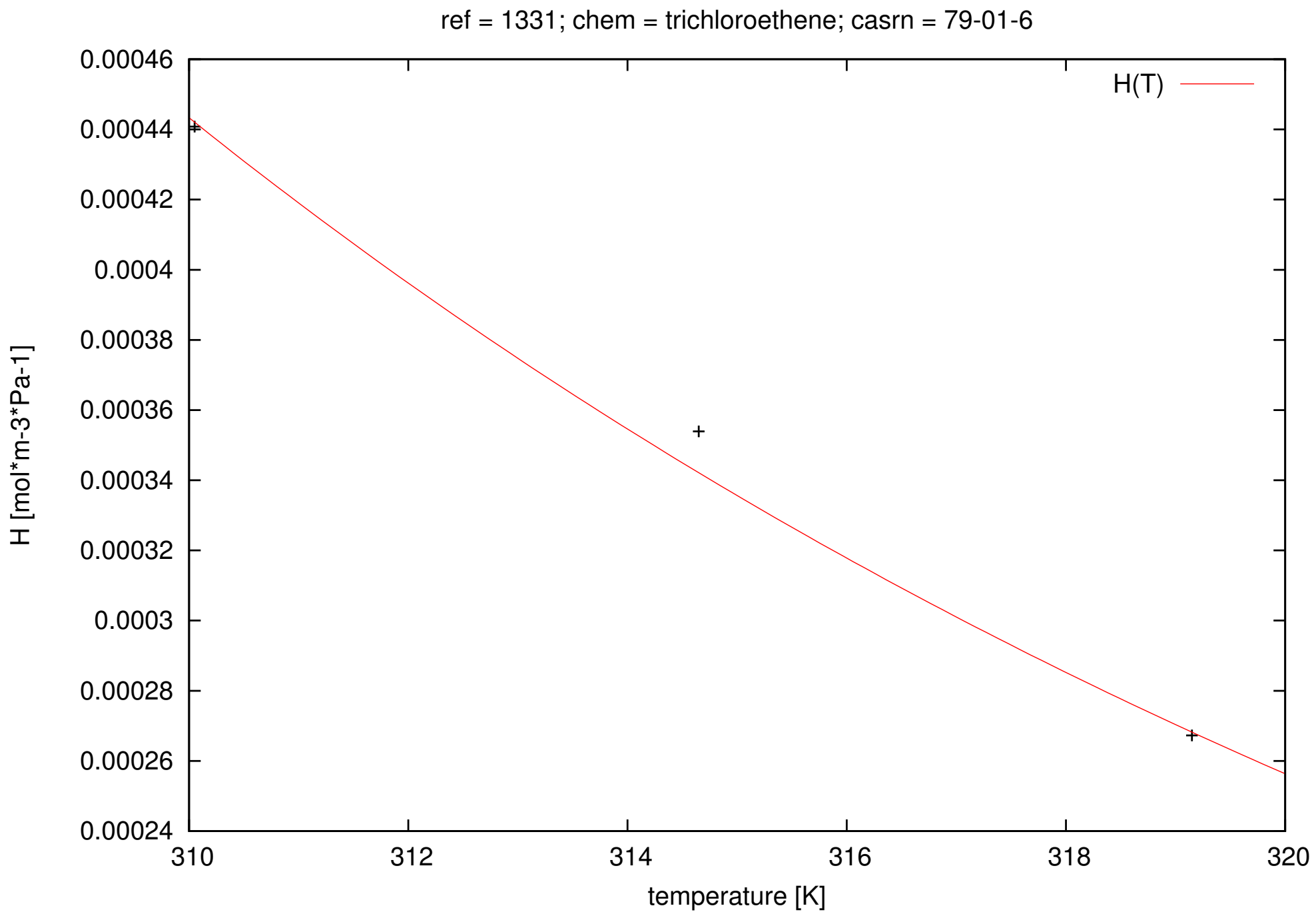

ref = 1229; chem = methylbenzene; casrn = 108-88-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
280
285
290
295
300
305
310

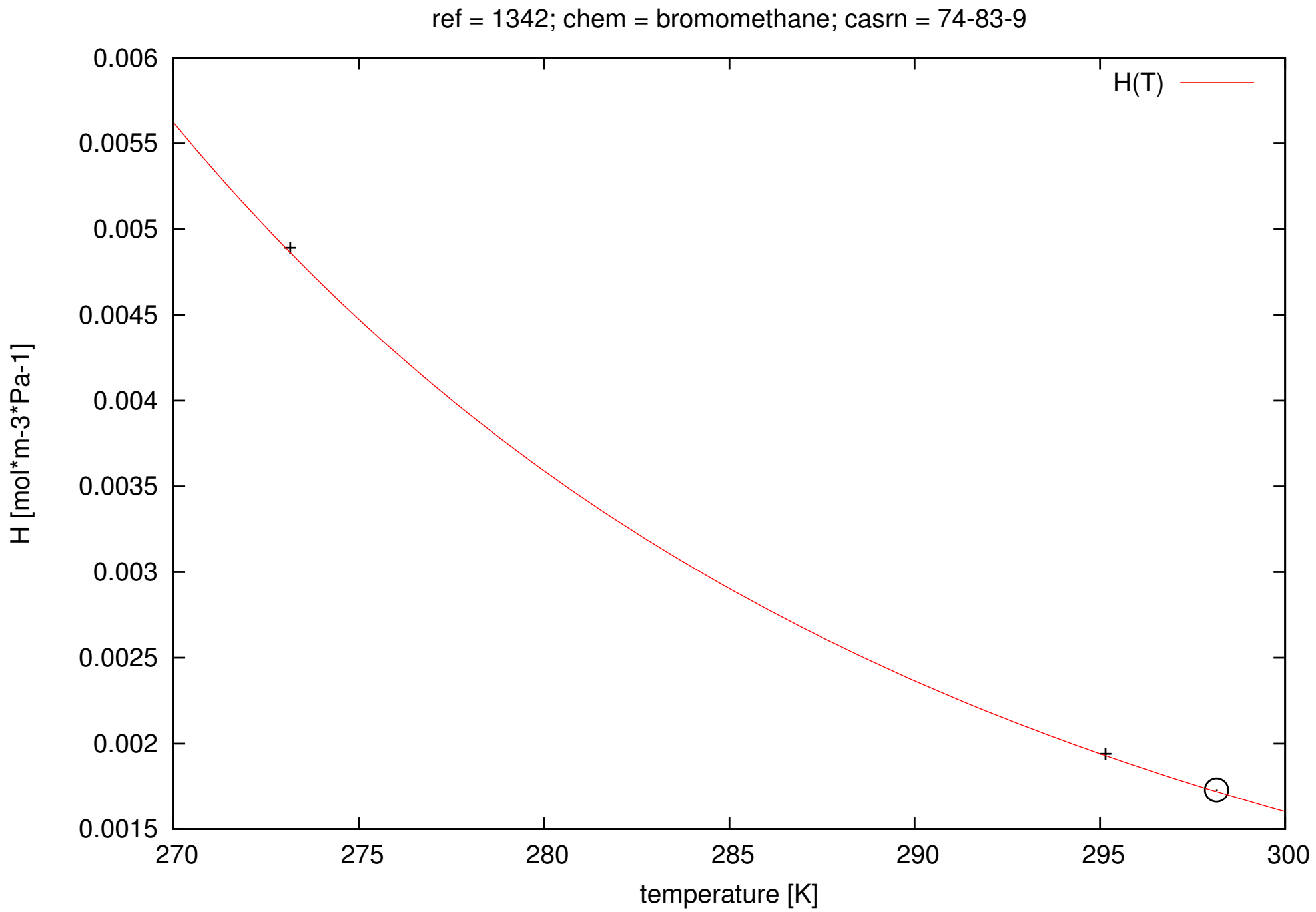

ref = 1229; chem = benzene; casrn = 71-43-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
280
285
290
295
300
305
310

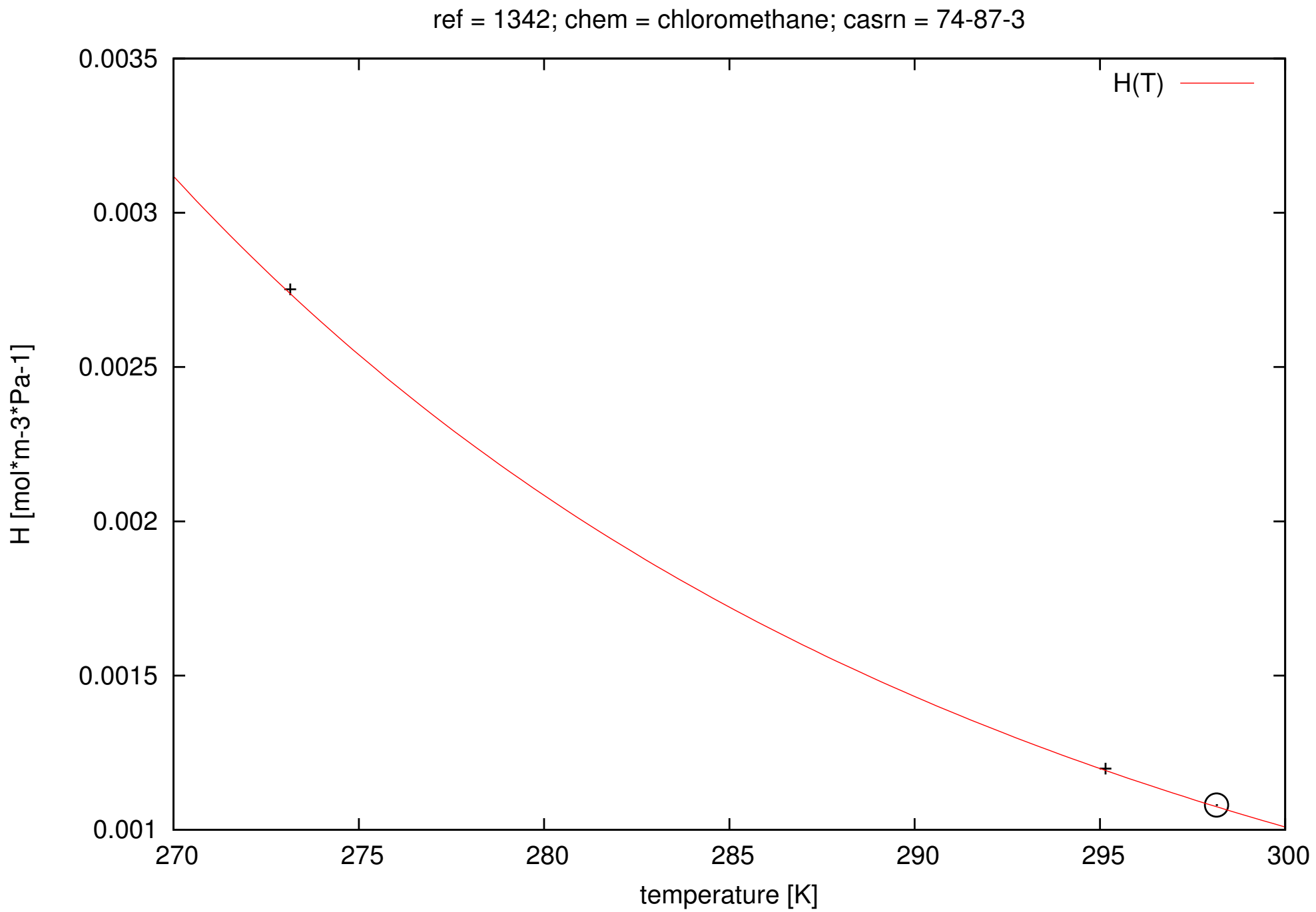

ref = 1331; chem = methylbenzene; casrn = 108-88-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0006
0.00055
0.0005
0.00045
0.0004
0.00035
0.0003
310
312
314
316
318
320

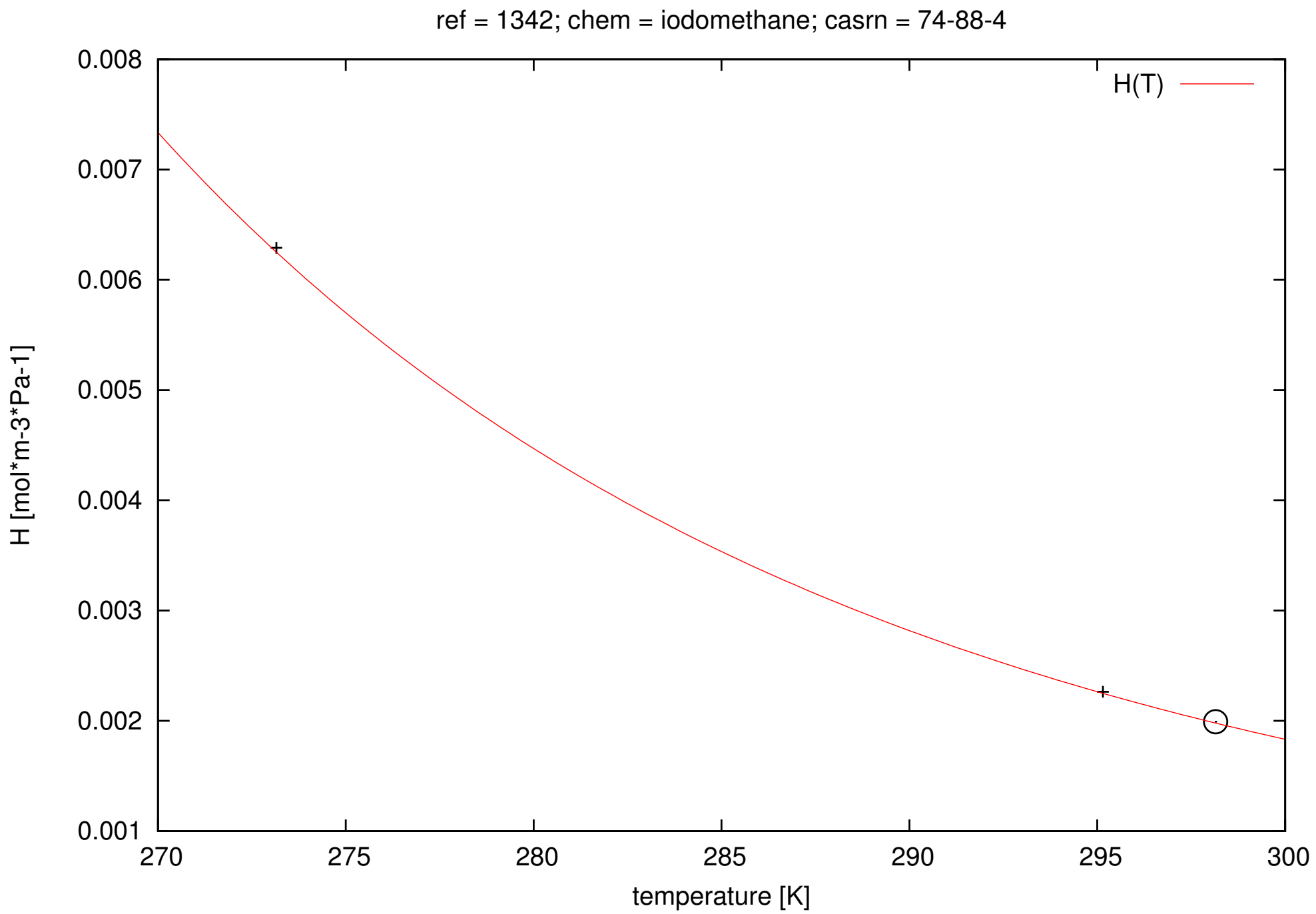

ref = 1331; chem = 2,6-dichlorobenzenenitrile; casrn = 1194-65-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
330
335
340
345
350
355
360
365
370

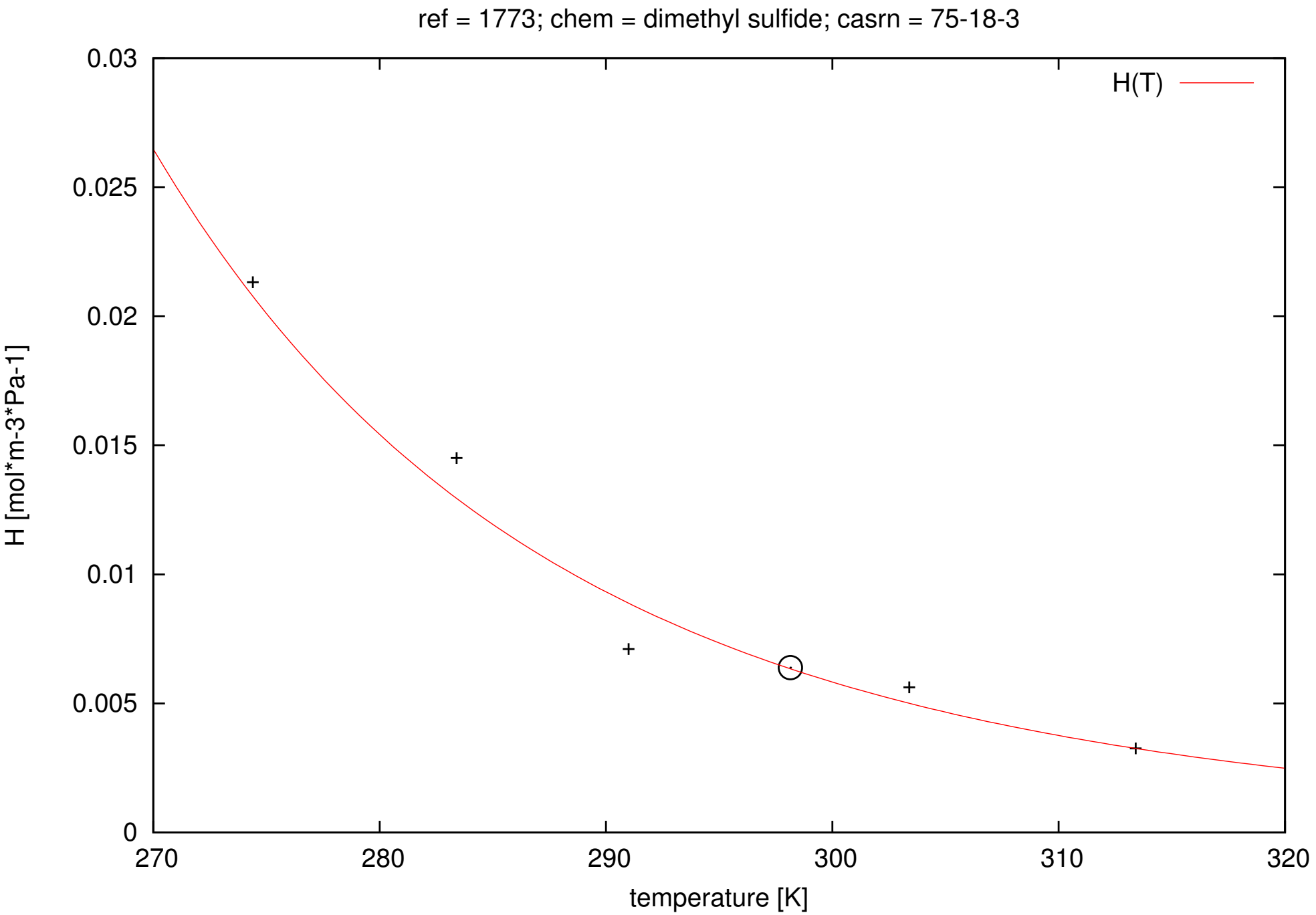

ref = 1331; chem = propanone; casrn = 67-64-1
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
310
320
330
340
350
360
370

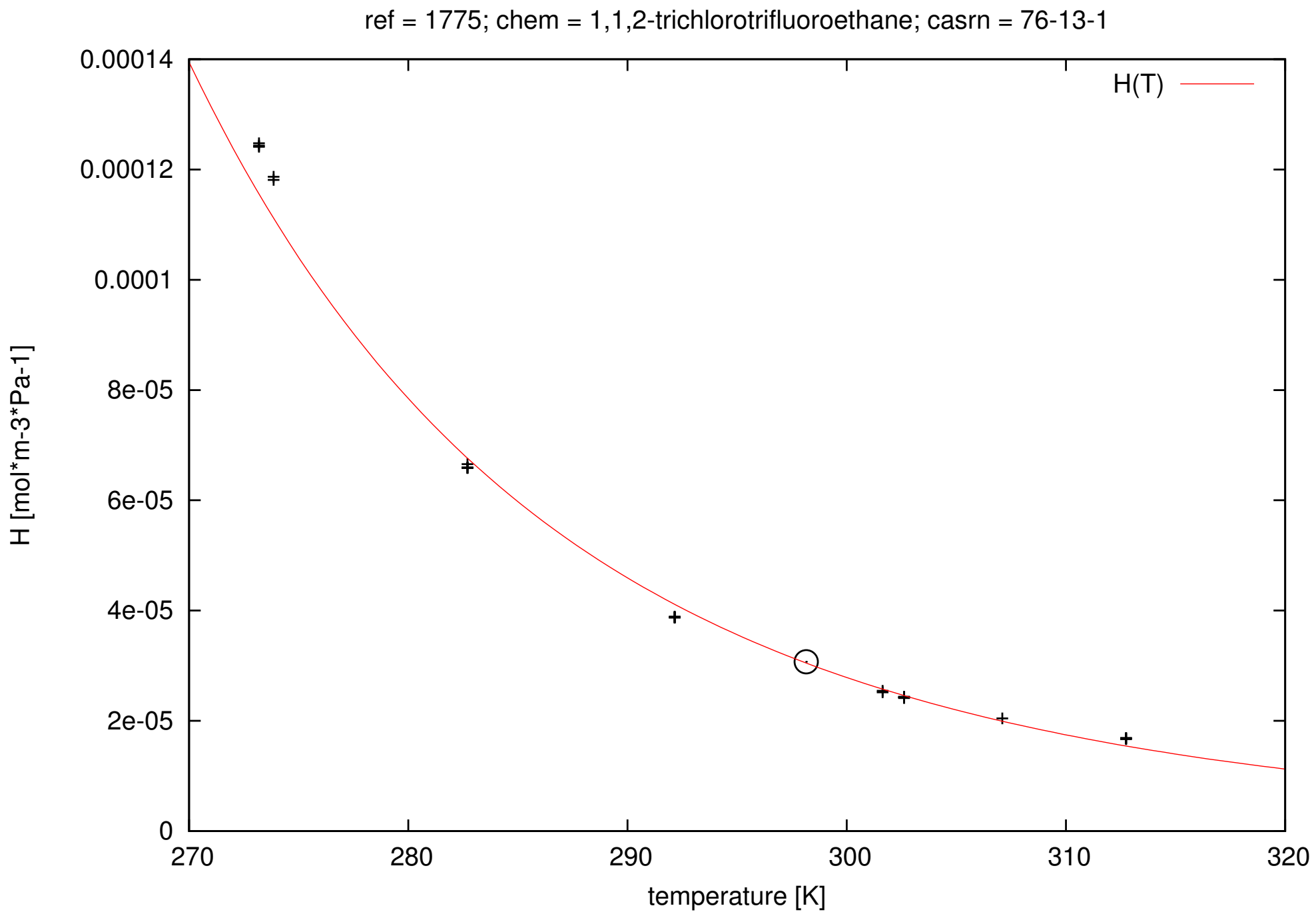

ref = 1331; chem = trichloroethene; casrn = 79-01-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.00046
0.00044
0.00042
0.0004
0.00038
0.00036
0.00034
0.00032
0.0003
0.00028
0.00026
0.00024
310
312
314
316
318
320

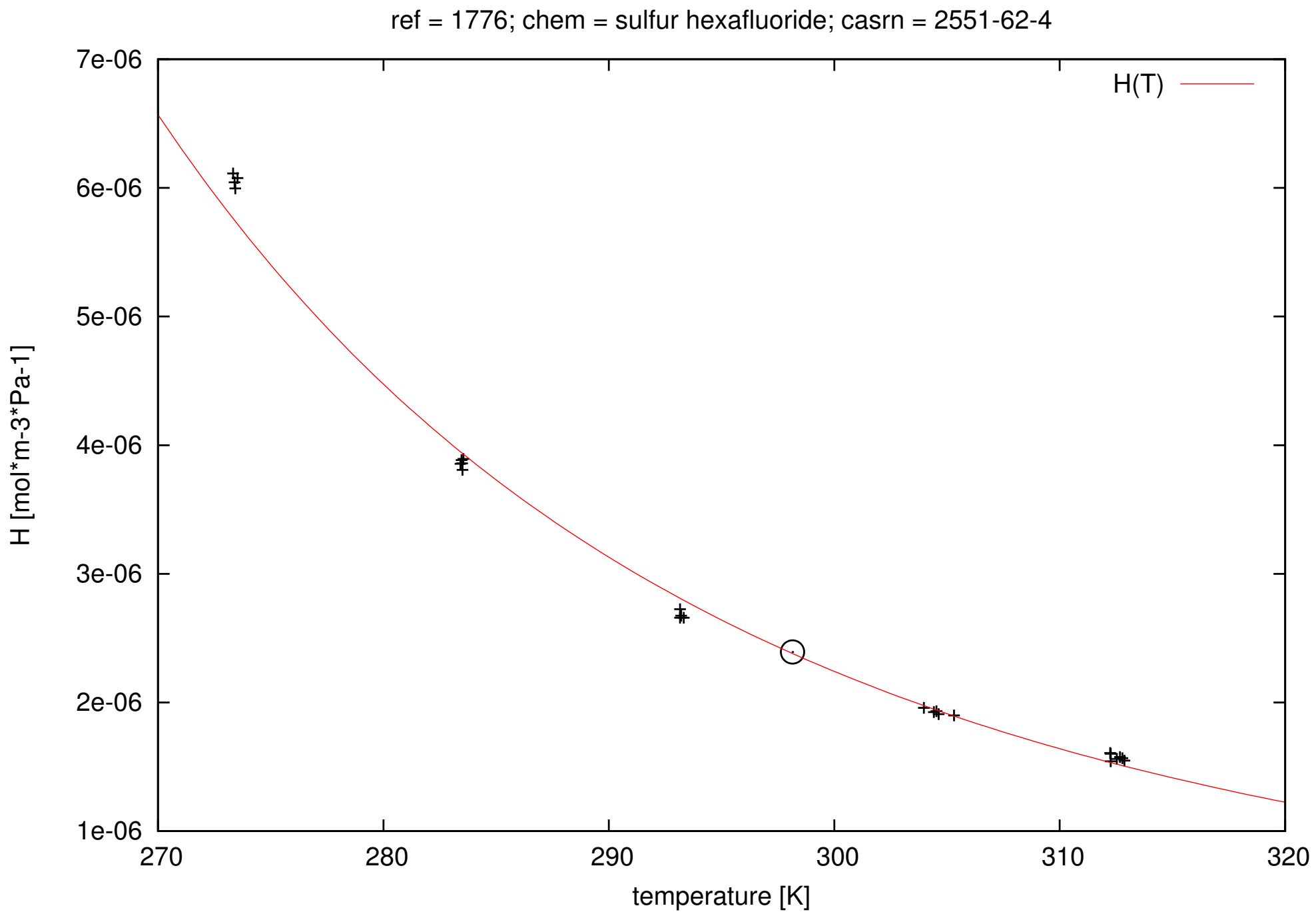

ref = 1342; chem = bromomethane; casrn = 74-83-9
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
270
275
280
285
290
295
300

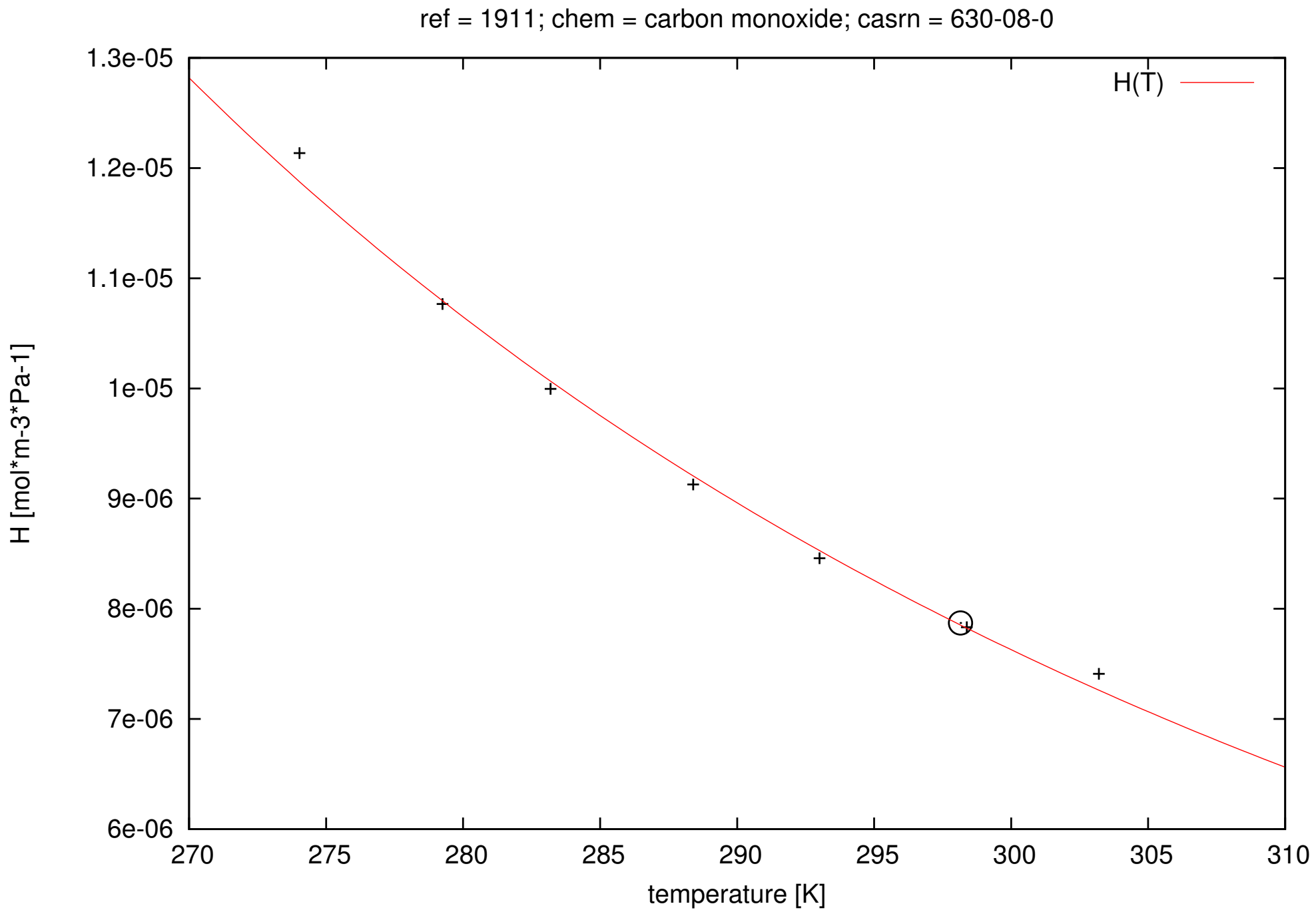

ref = 1342; chem = chloromethane; casrn = 74-87-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0035
0.003
0.0025
0.002
0.0015
0.001
270
275
280
285
290
295
300

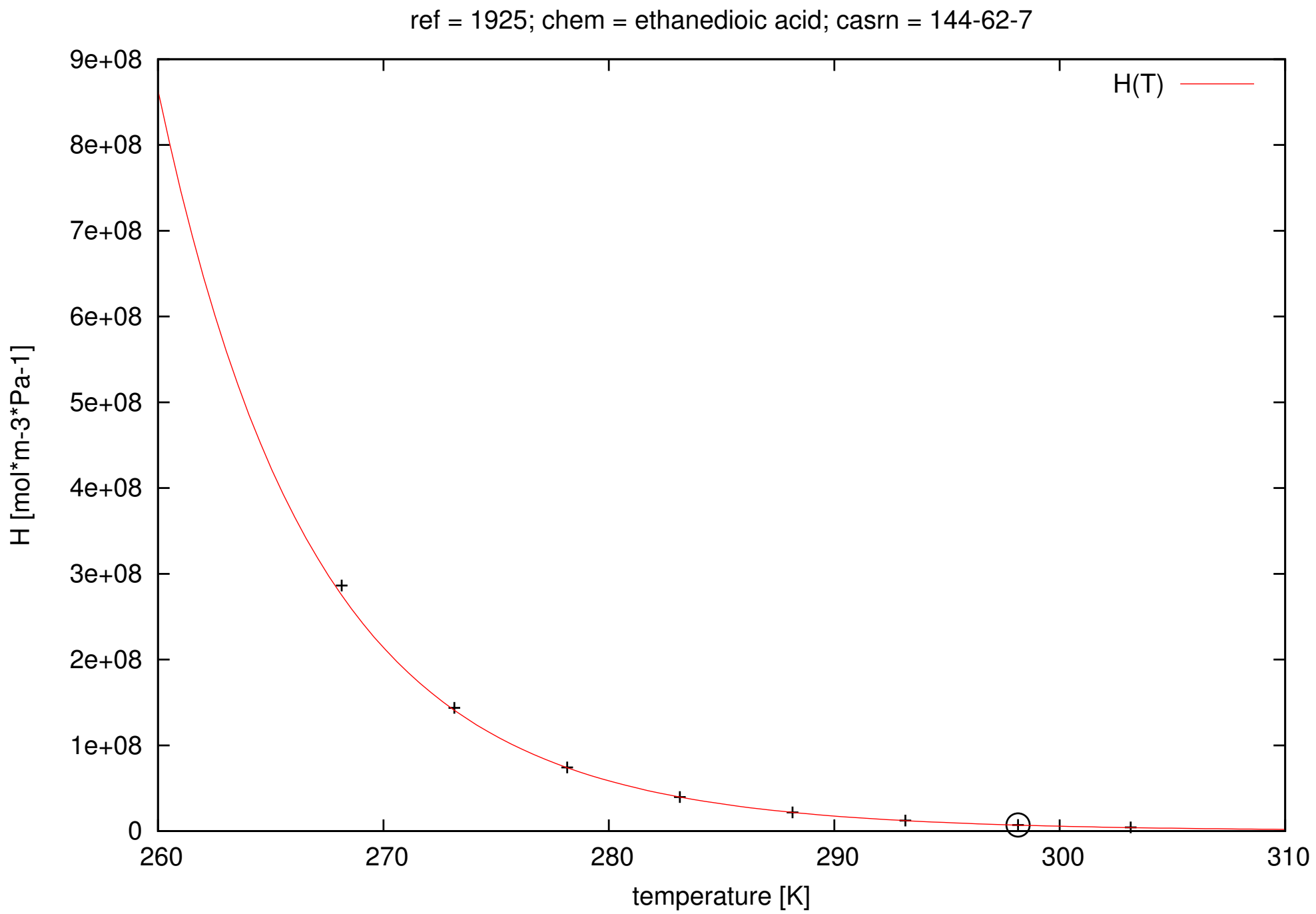

ref = 1342; chem = iodomethane; casrn = 74-88-4
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
270
275
280
285
290
295
300

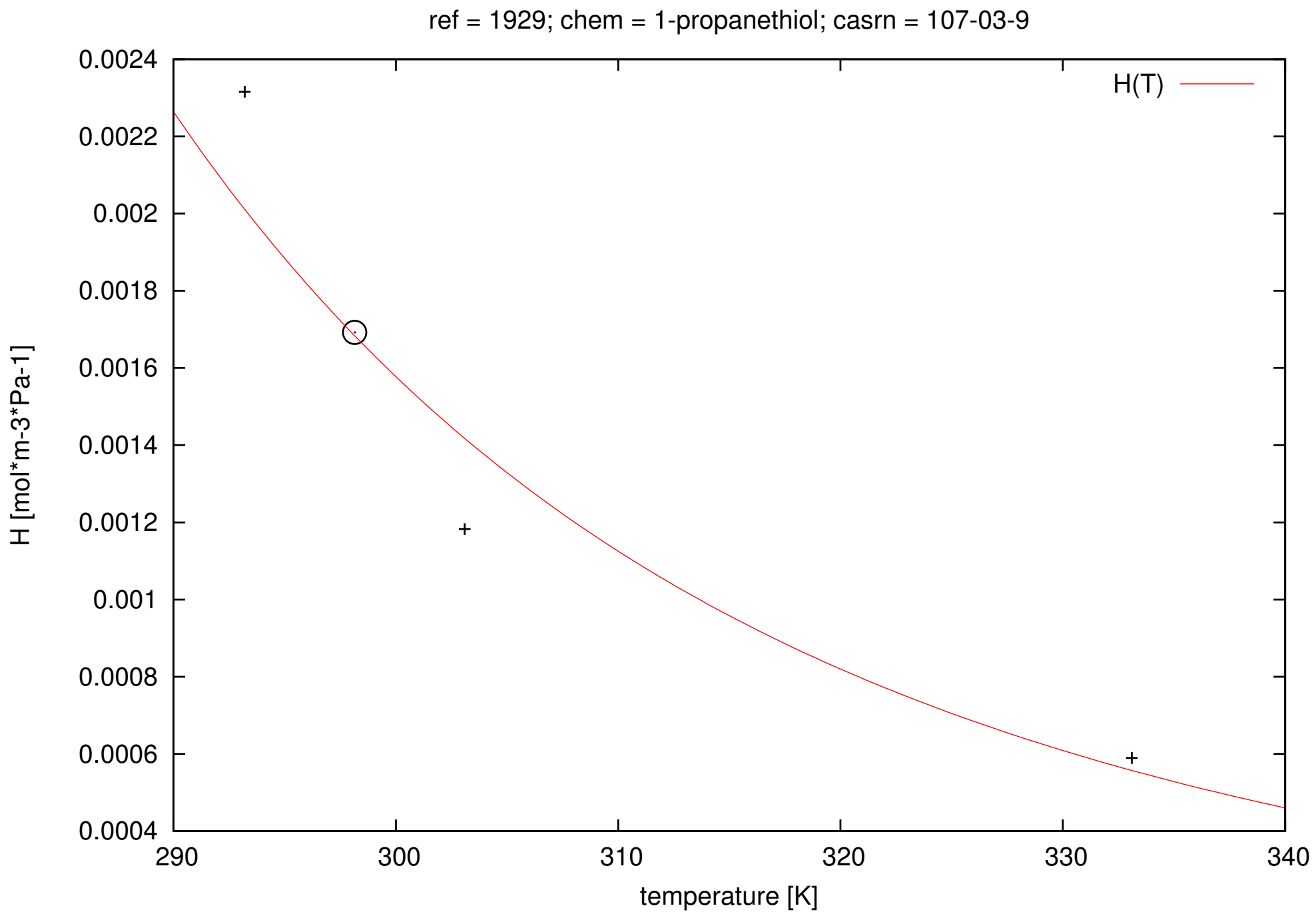

ref = 1773; chem = dimethyl sulfide; casrn = 75-18-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.03
0.025
0.02
0.015
0.01
0.005
0
270
280
290
300
310
320

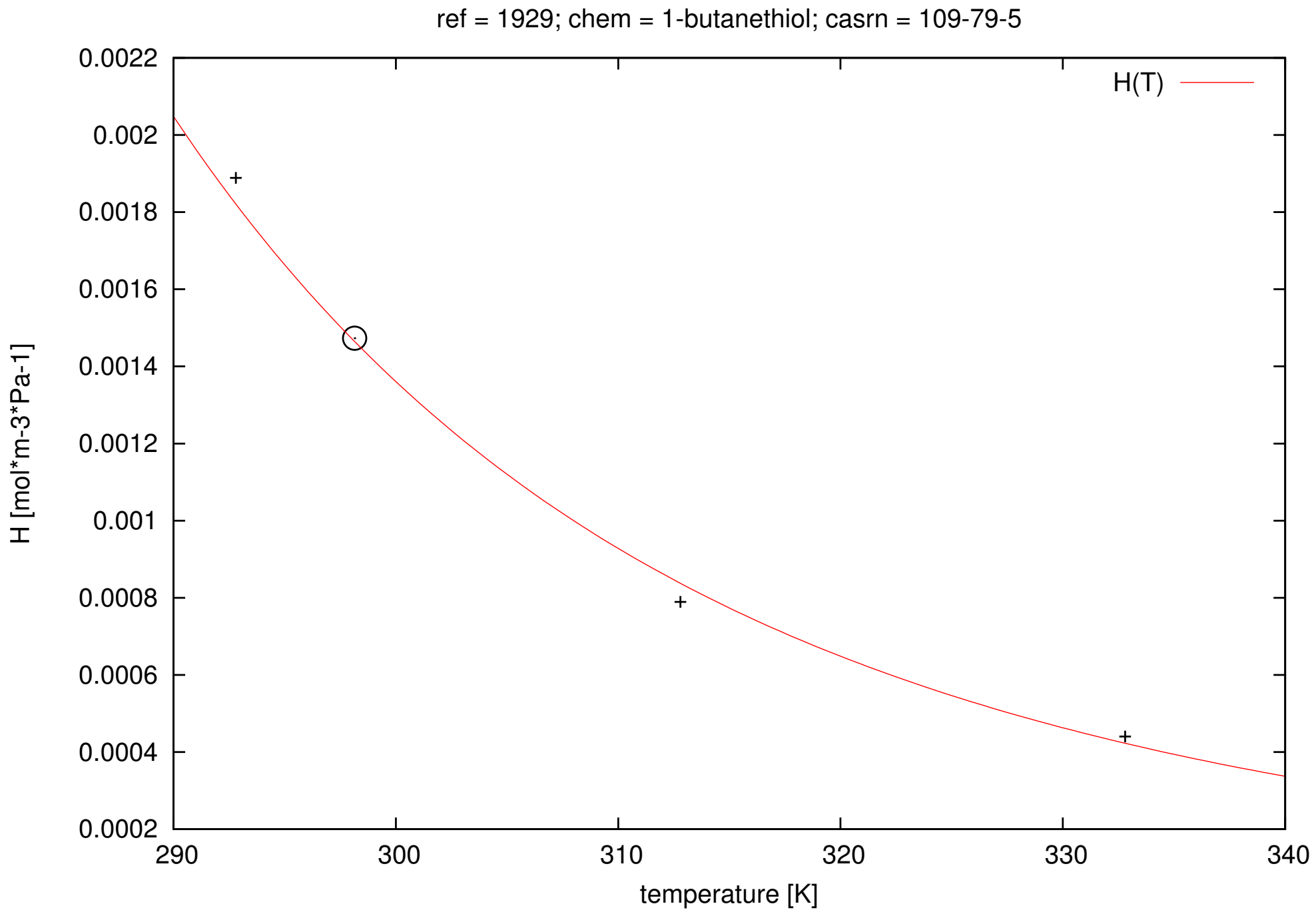

ref = 1775; chem = 1,1,2-trichlorotrifluoroethane; casrn = 76-13-1
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.00014
0.00012
0.0001
8e-05
6e-05
4e-05
2e-05
0
270
280
290
300
310
320

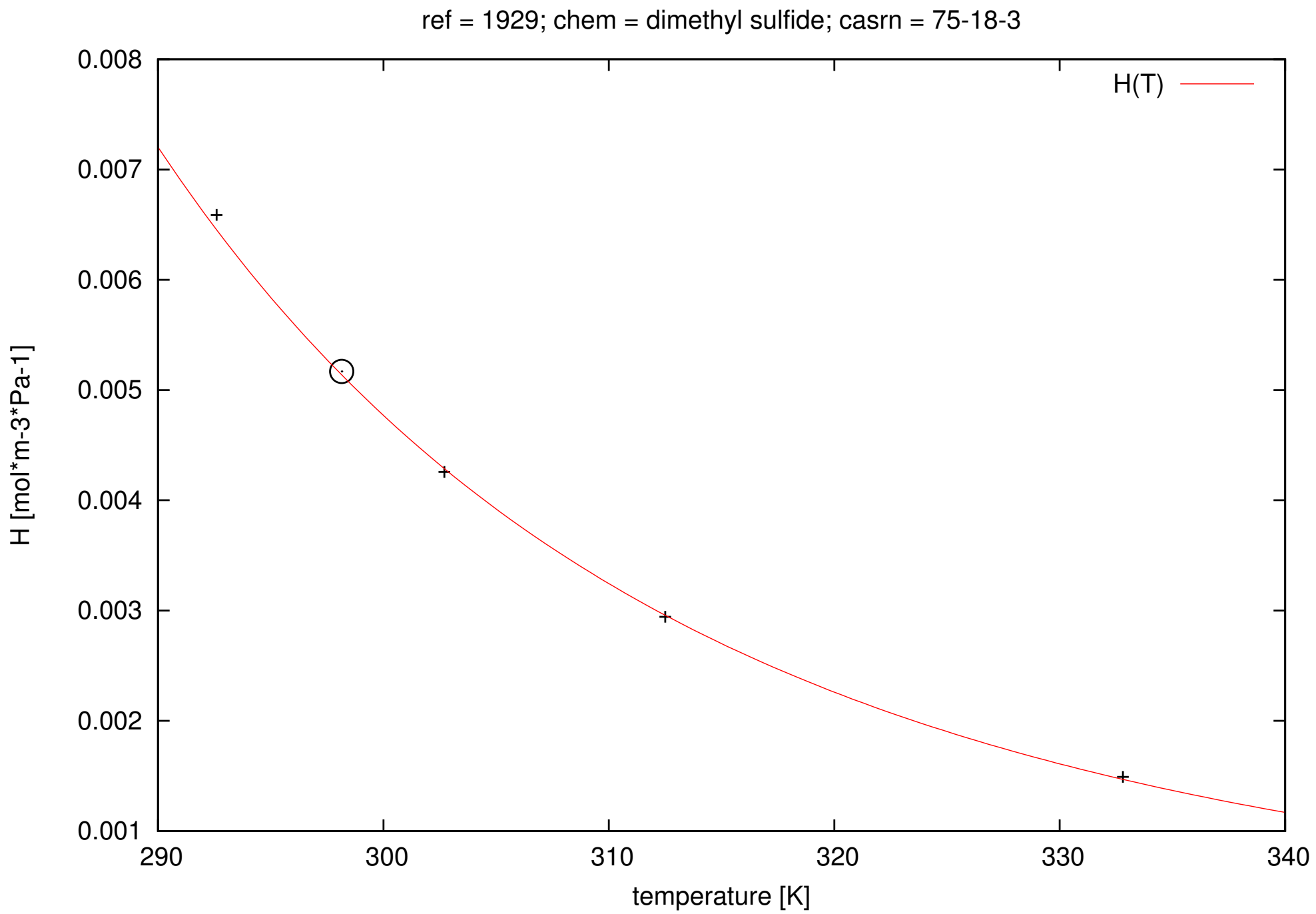

ref = 1776; chem = sulfur hexafluoride; casrn = 2551-62-4
H(T)
H [mol*m-3*Pa-1]
temperature [K]
7e-06
6e-06
5e-06
4e-06
3e-06
2e-06
1e-06
270
280
290
300
310
320

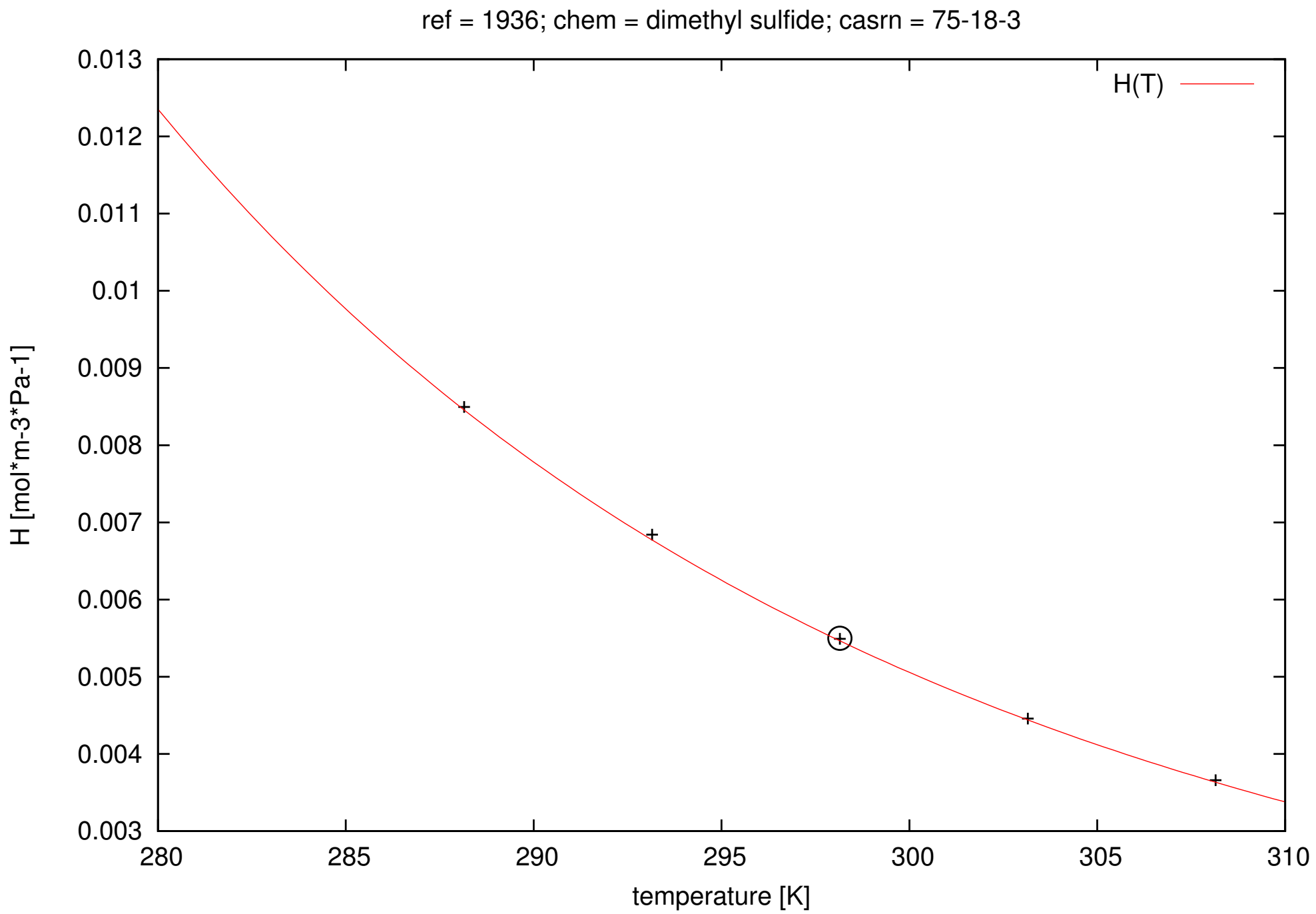

ref = 1911; chem = carbon monoxide; casrn = 630-08-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
1.3e-05
1.2e-05
1.1e-05
1e-05
9e-06
8e-06
7e-06
6e-06
270
275
280
285
290
295
300
305
310

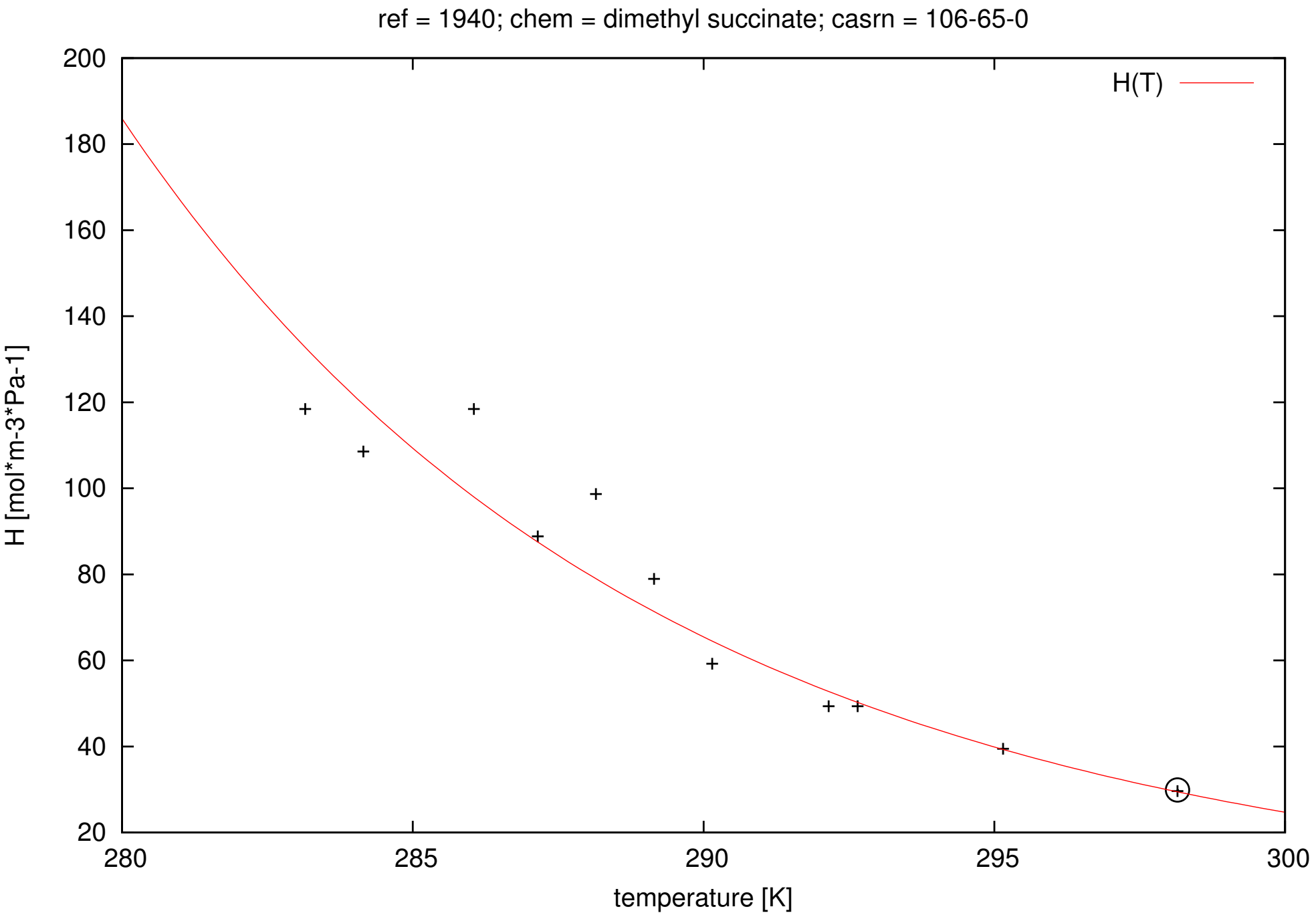

ref = 1925; chem = ethanedioic acid; casrn = 144-62-7
H(T)
H [mol*m-3*Pa-1]
temperature [K]
9e+08
8e+08
7e+08
6e+08
5e+08
4e+08
3e+08
2e+08
1e+08
0
260
270
280
290
300
310

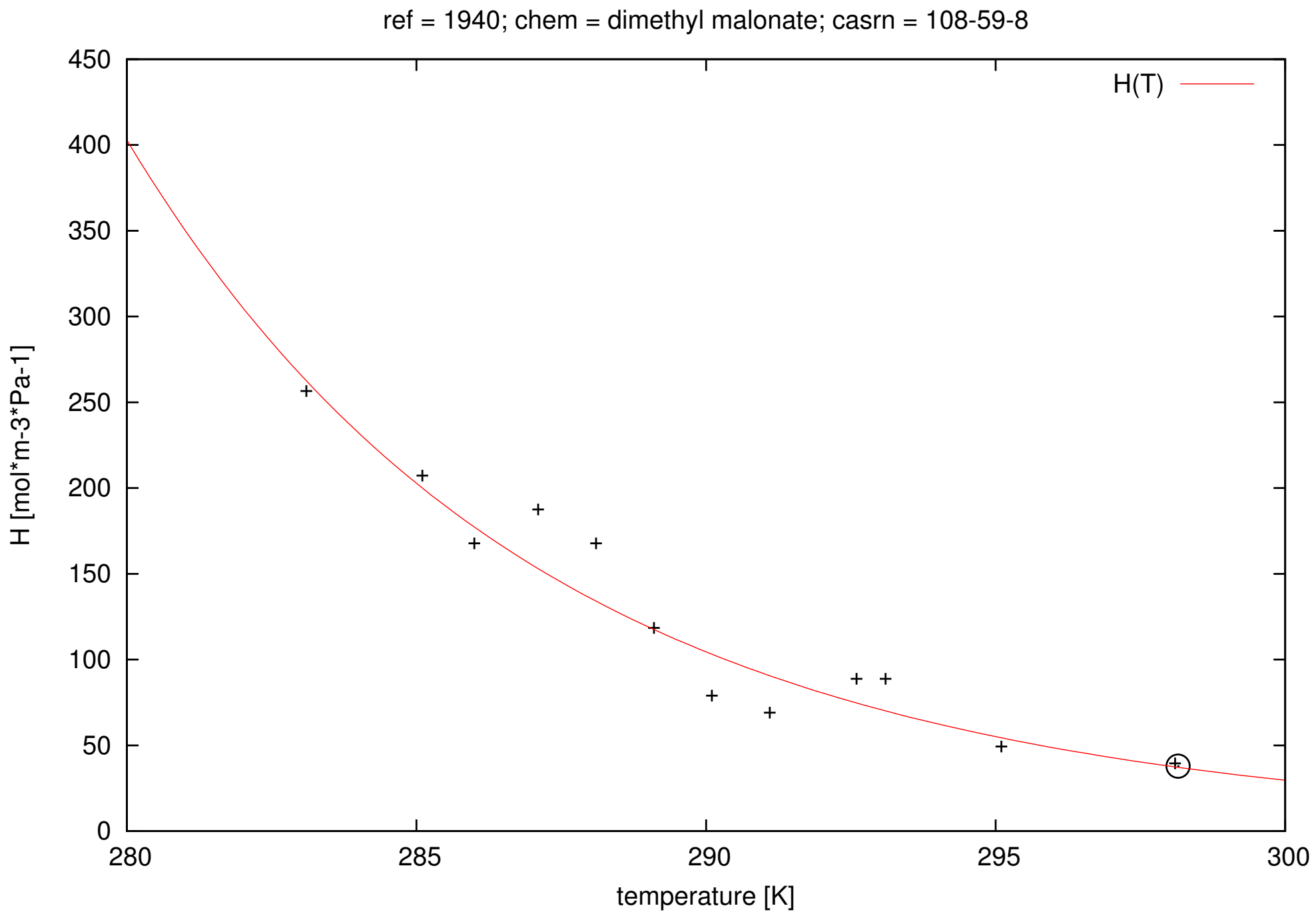

ref = 1929; chem = 1-propanethiol; casrn = 107-03-9
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
290
300
310
320
330
340

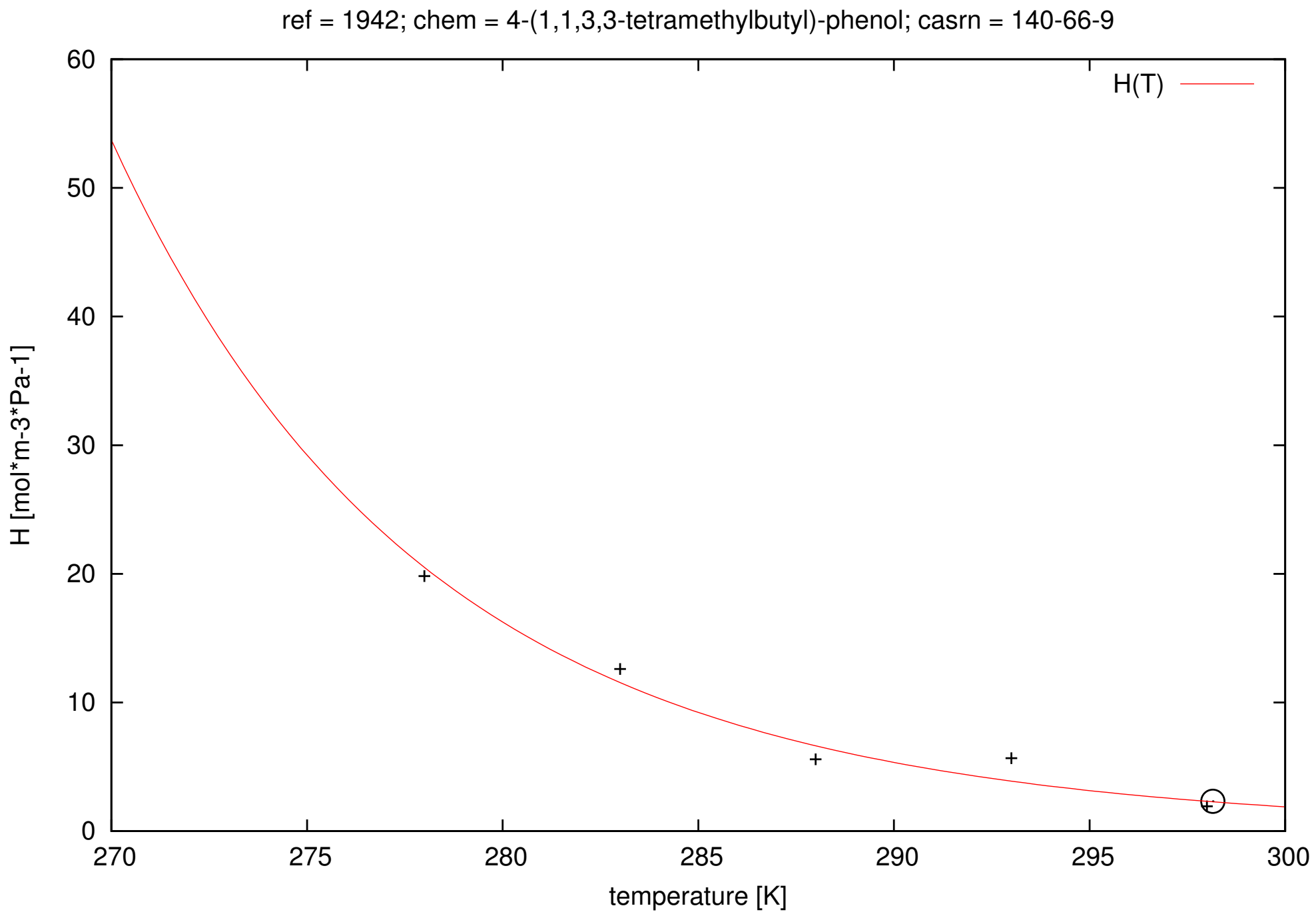

ref = 1929; chem = 1-butanethiol; casrn = 109-79-5
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
290
300
310
320
330
340


ref = 1929; chem = dimethyl sulfide; casrn = 75-18-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
290
300
310
320
330
340

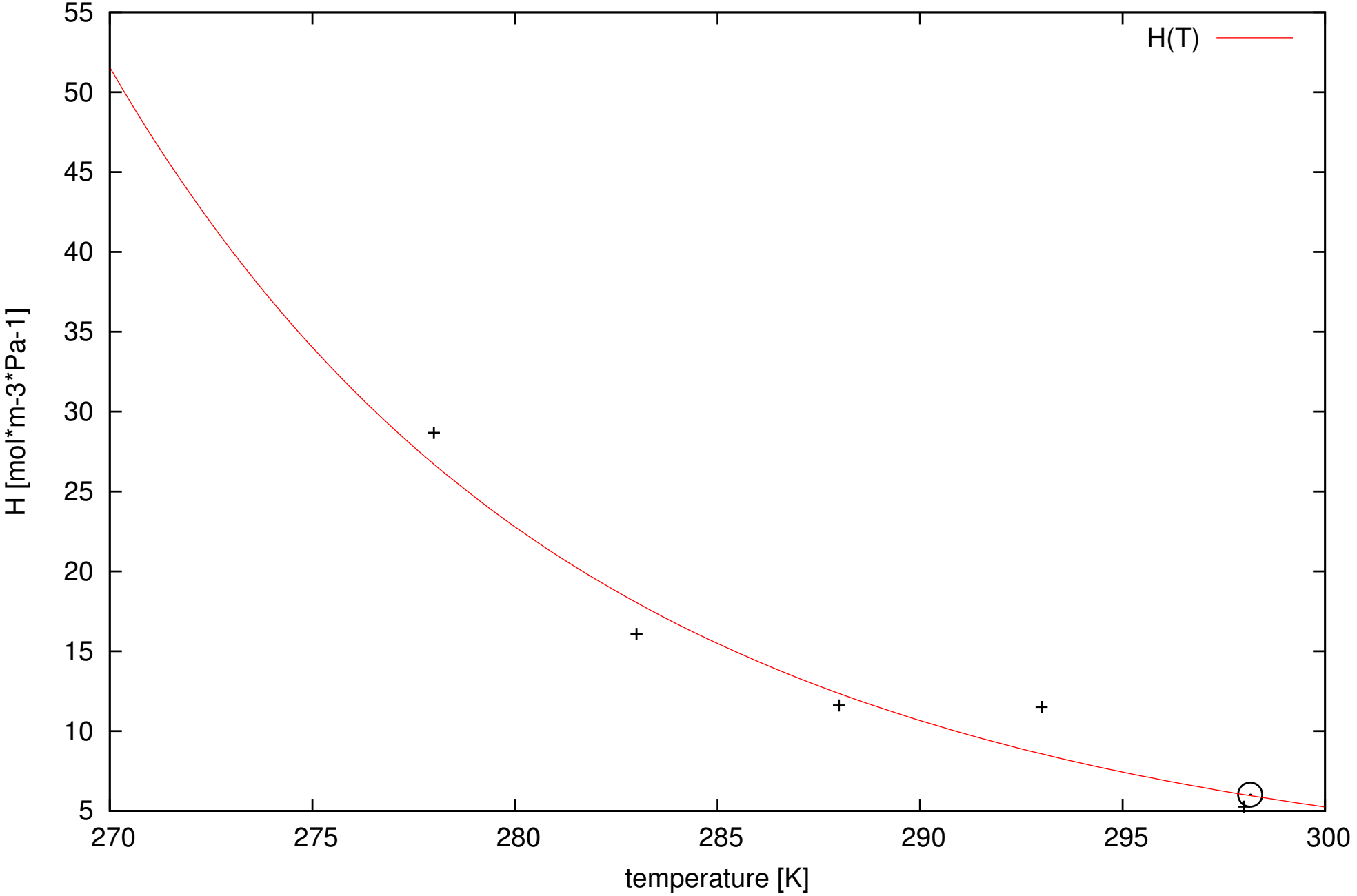

ref = 1936; chem = dimethyl sulfide; casrn = 75-18-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
280
285
290
295
300
305
310

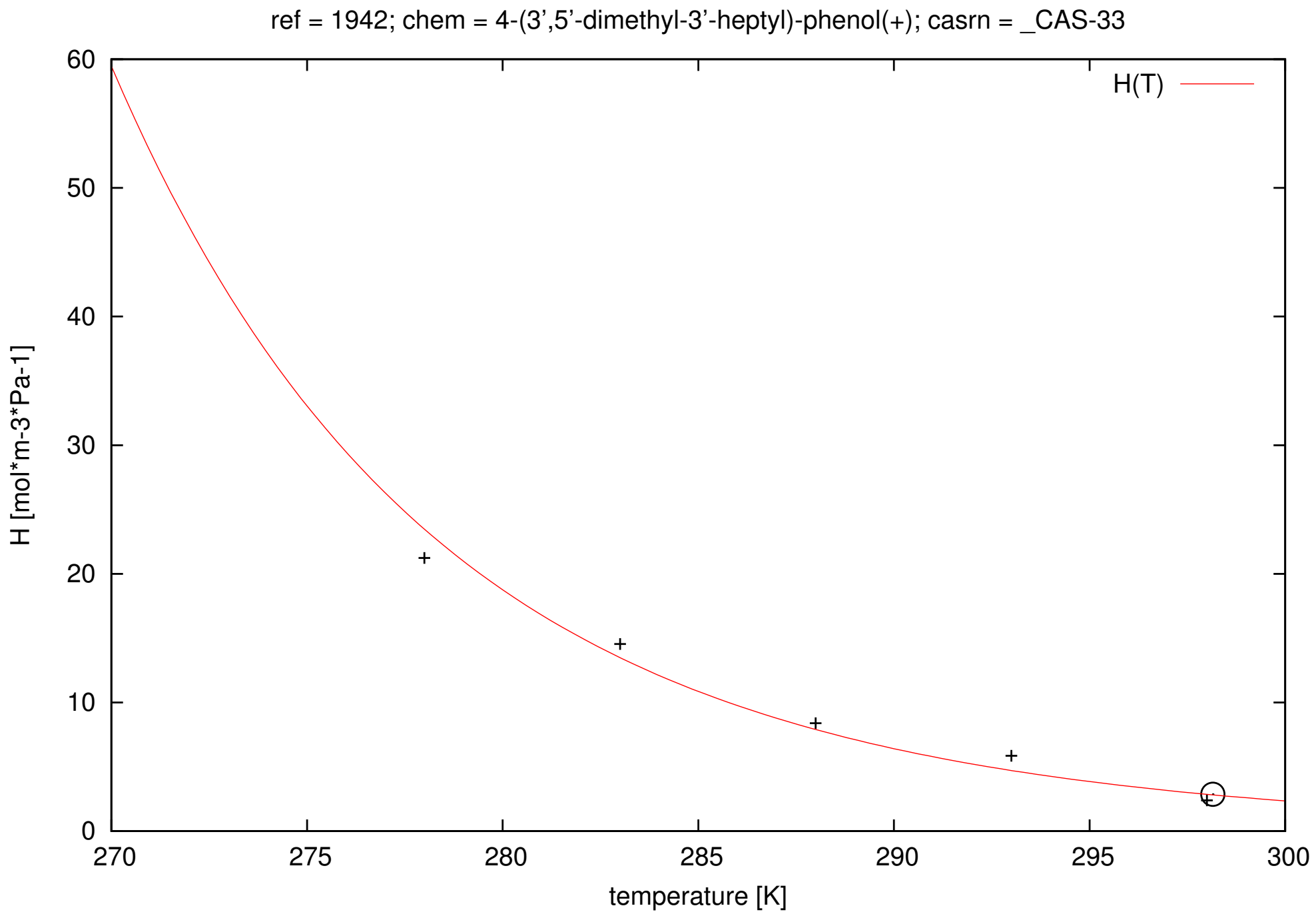

ref = 1940; chem = dimethyl succinate; casrn = 106-65-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
200
180
160
140
120
100
80
60
40
20
280
285
290
295
300

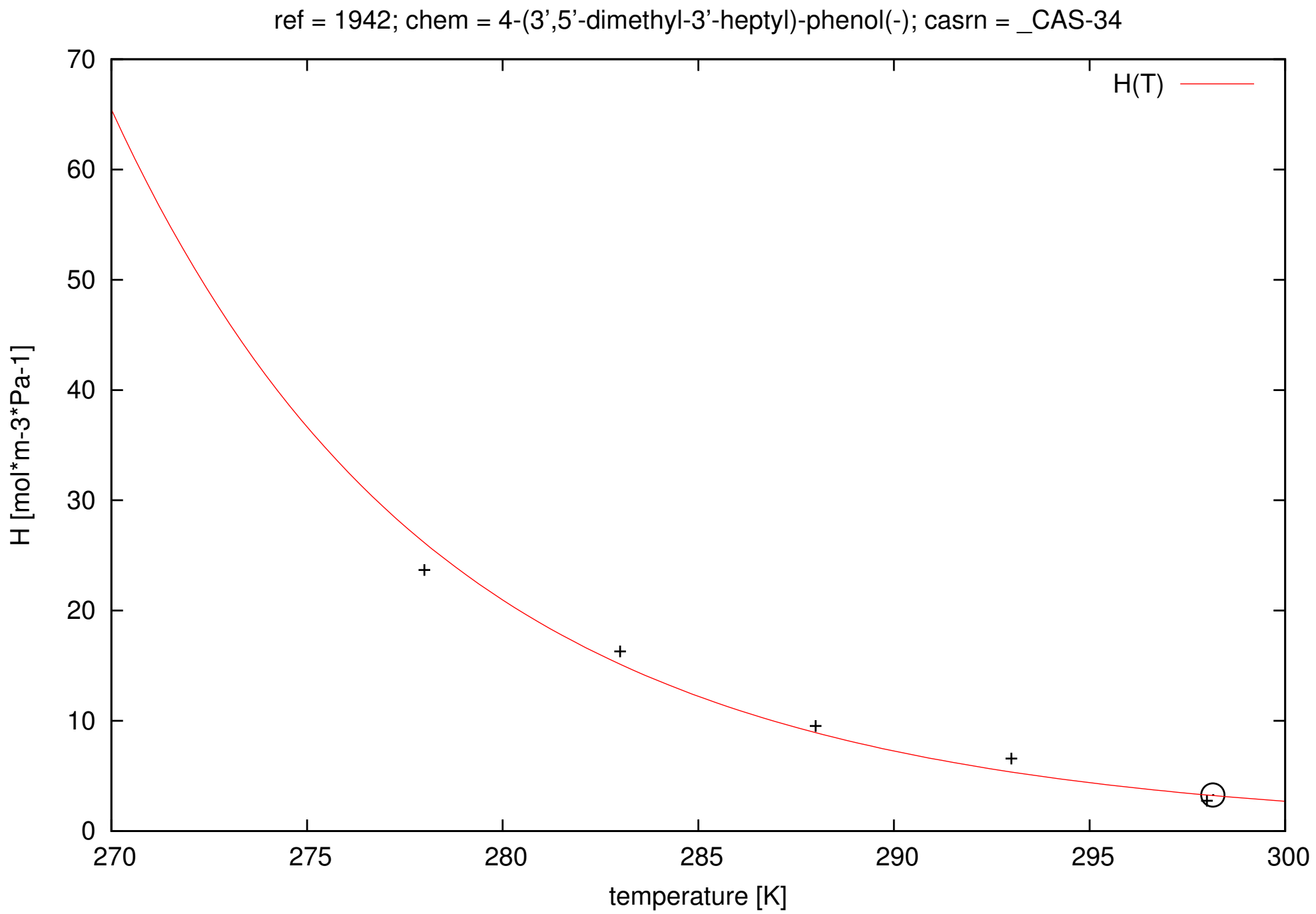

ref = 1940; chem = dimethyl malonate; casrn = 108-59-8
H(T)
H [mol*m-3*Pa-1]
temperature [K]
450
400
350
300
250
200
150
100
50
0
280
285
290
295
300

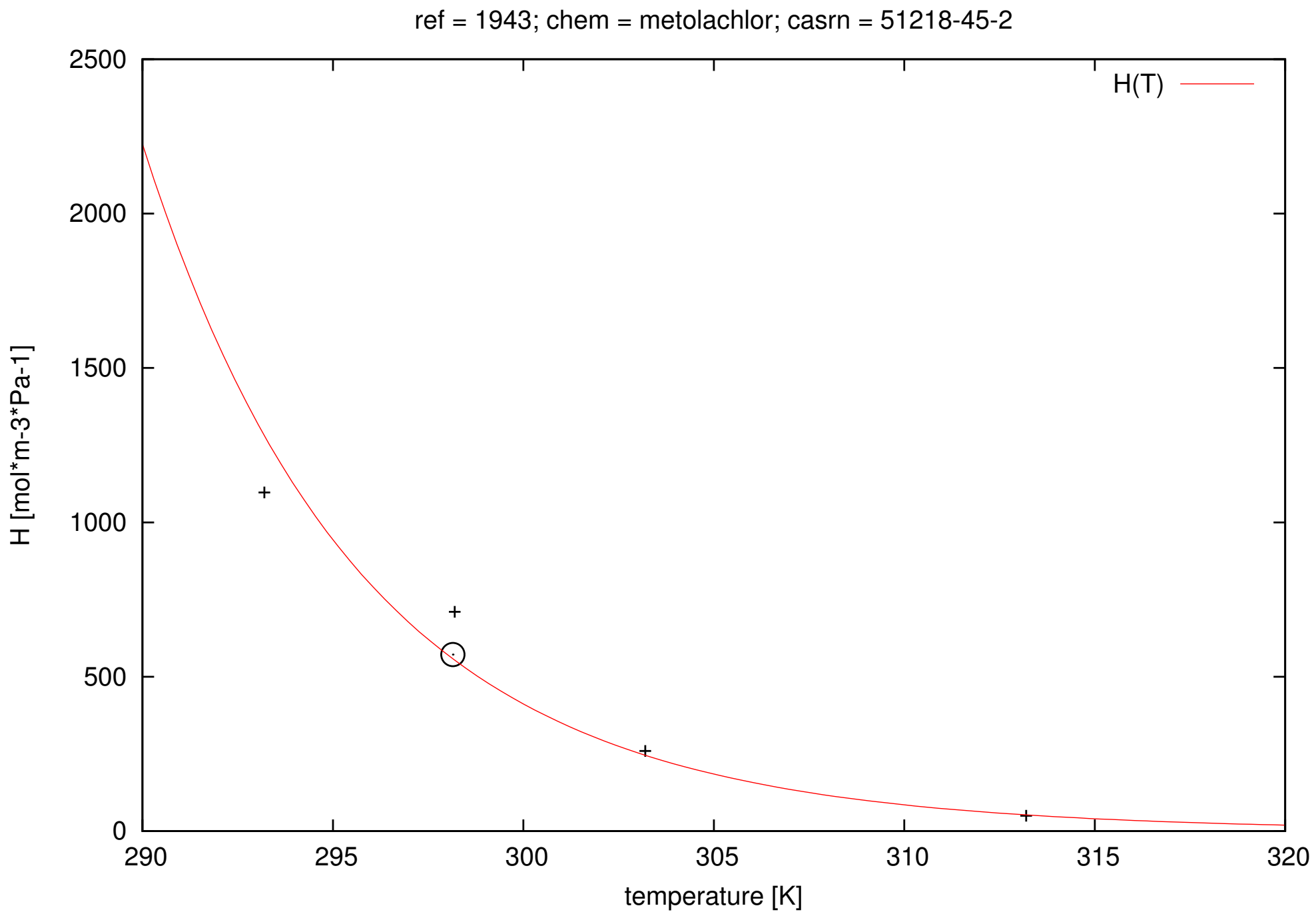

ref = 1942; chem = 4-(1,1,3,3-tetramethylbutyl)-phenol; casrn = 140-66-9
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0
10
20
30
40
50
60
270
275
280
285
290
295
300

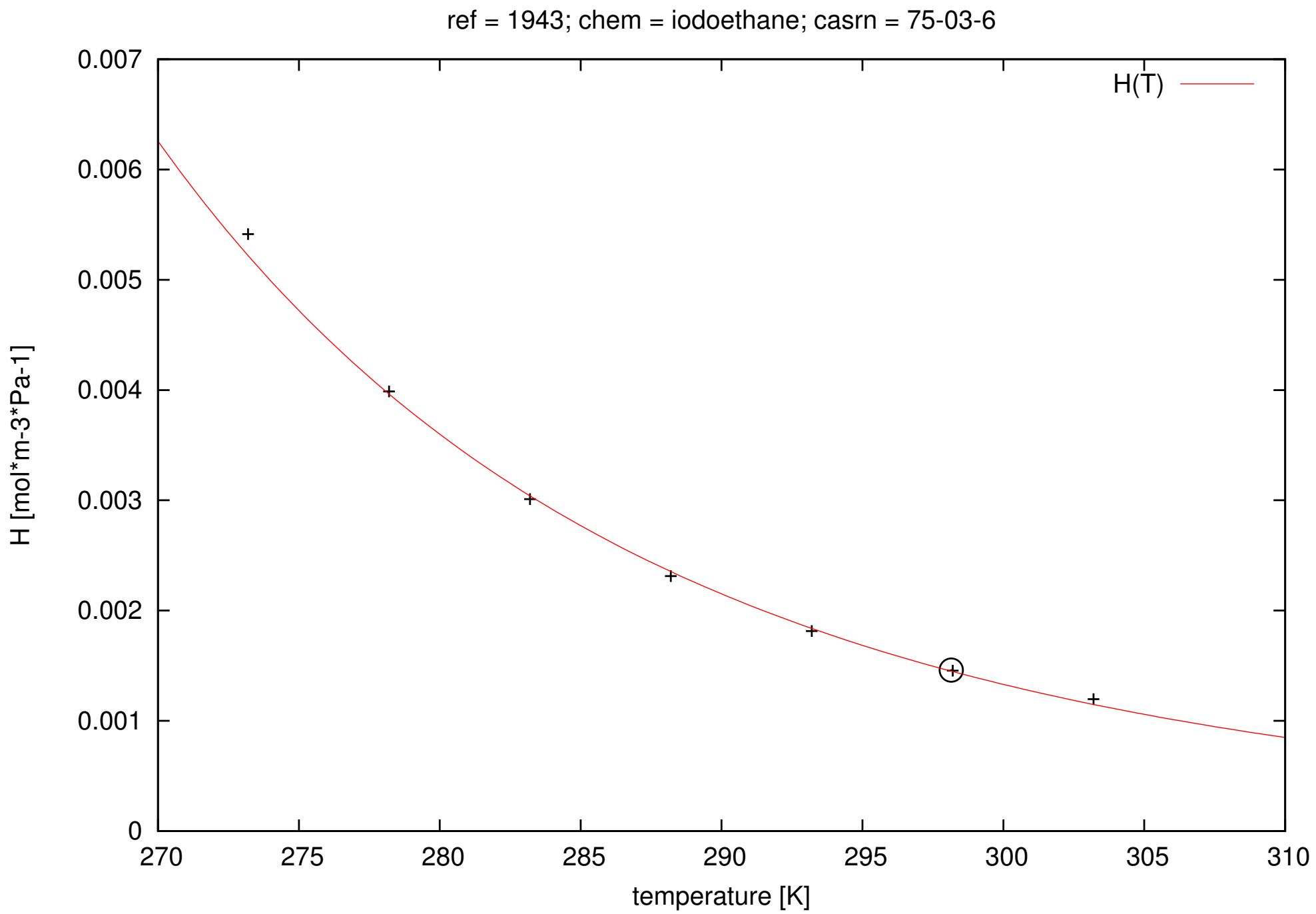
ref = 1942; chem = $gamma$-1,2,3,4,5,6-hexachlorocyclohexane; casrn = 58-89-9

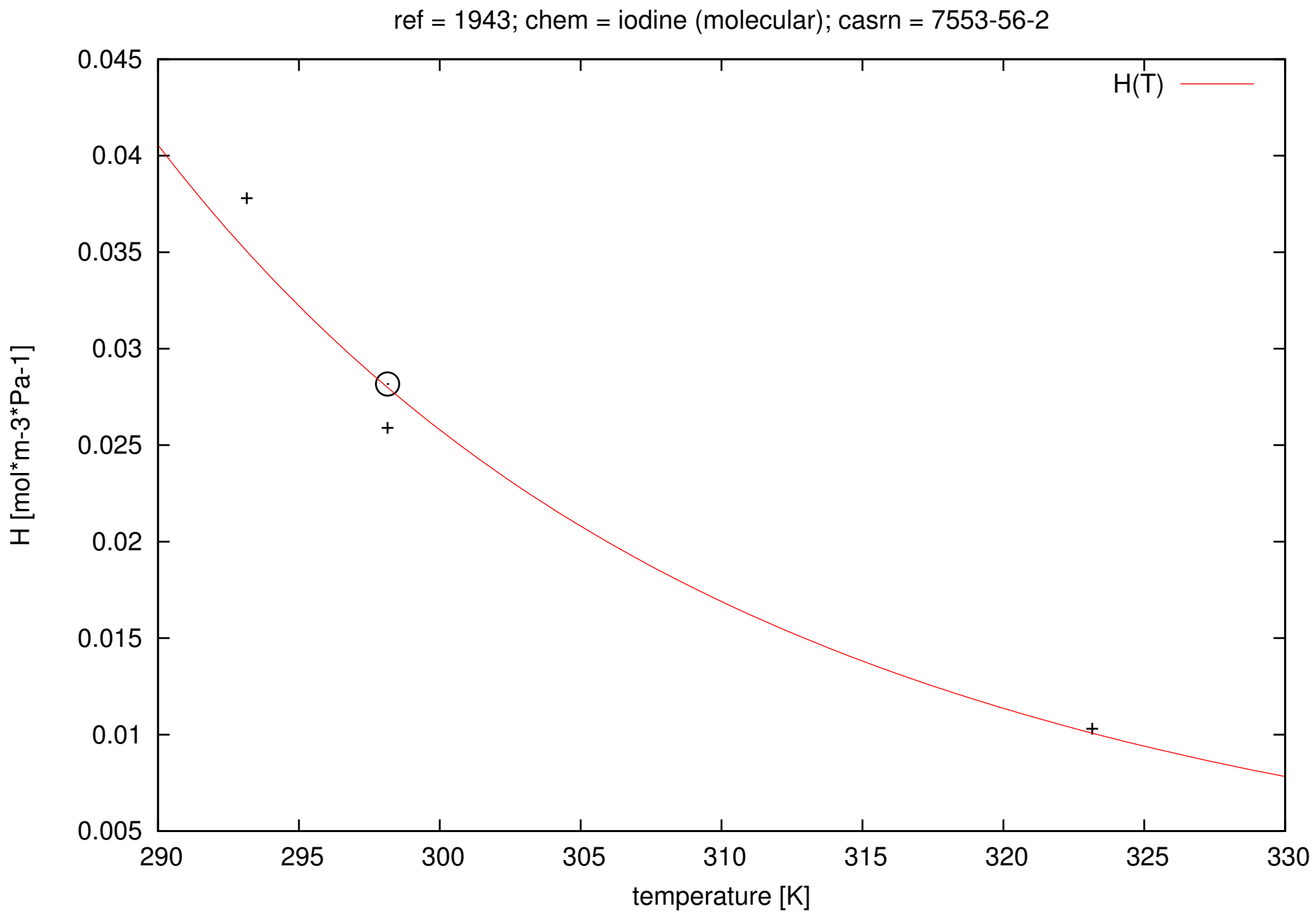


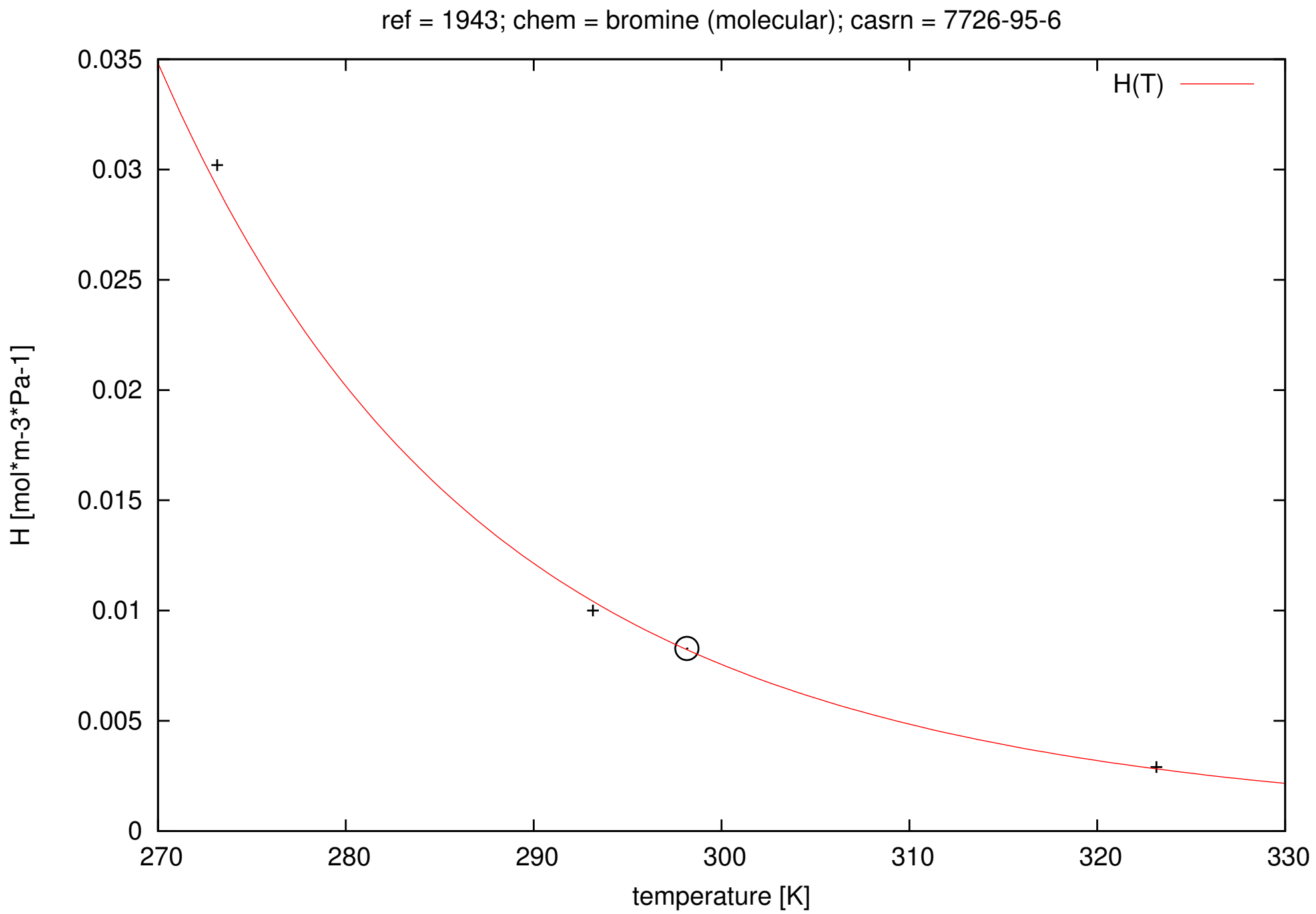

ref = 1942; chem = 4-(3',5'-dimethyl-3'-heptyl)-phenol(+); casrn = _CAS-33
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0
10
20
30
40
50
60
270
275
280
285
290
295
300

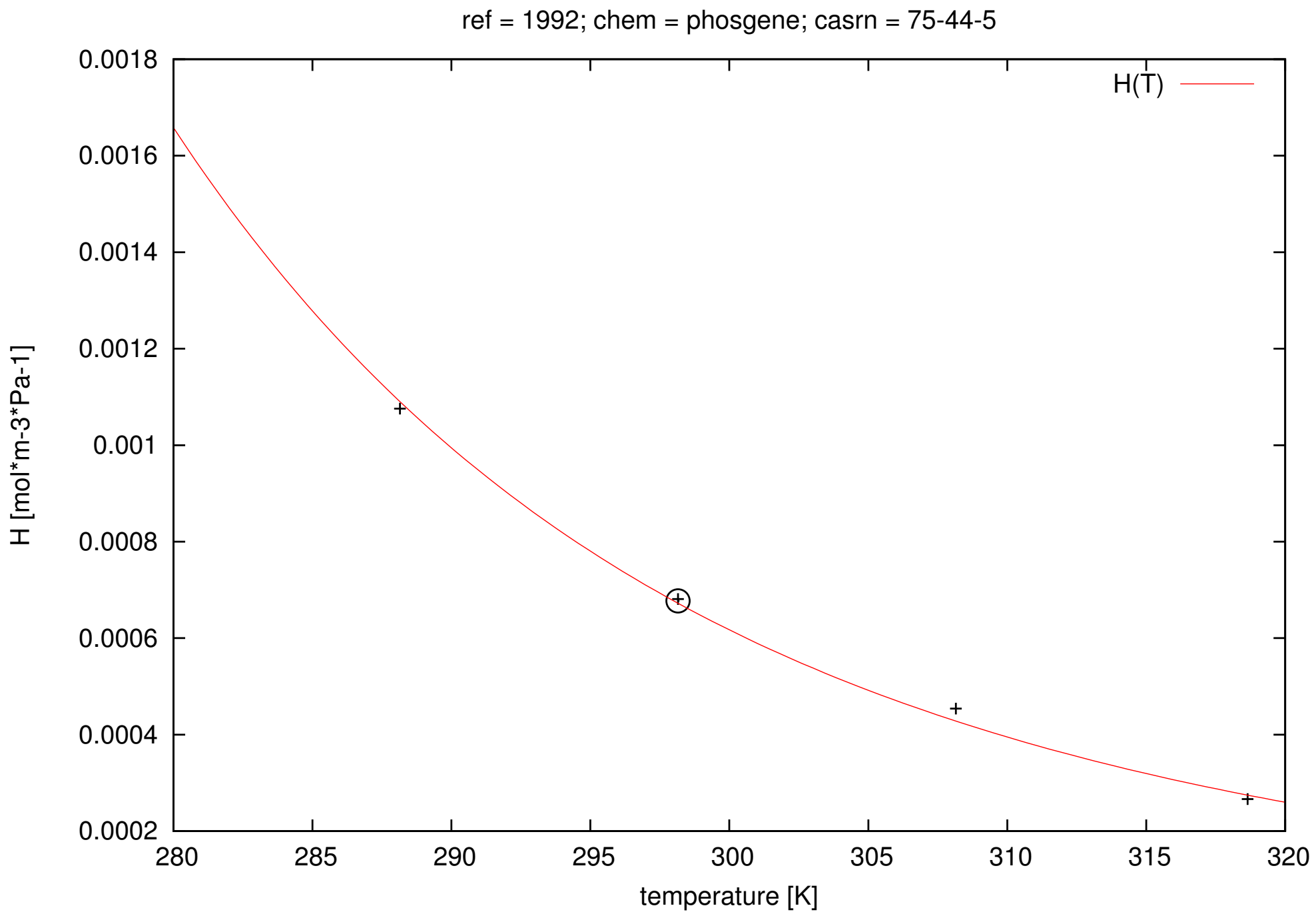

ref = 1942; chem = 4-(3',5'-dimethyl-3'-heptyl)-phenol(-); casrn = _CAS-34
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0
10
20
30
40
50
60
70
270
275
280
285
290
295
300

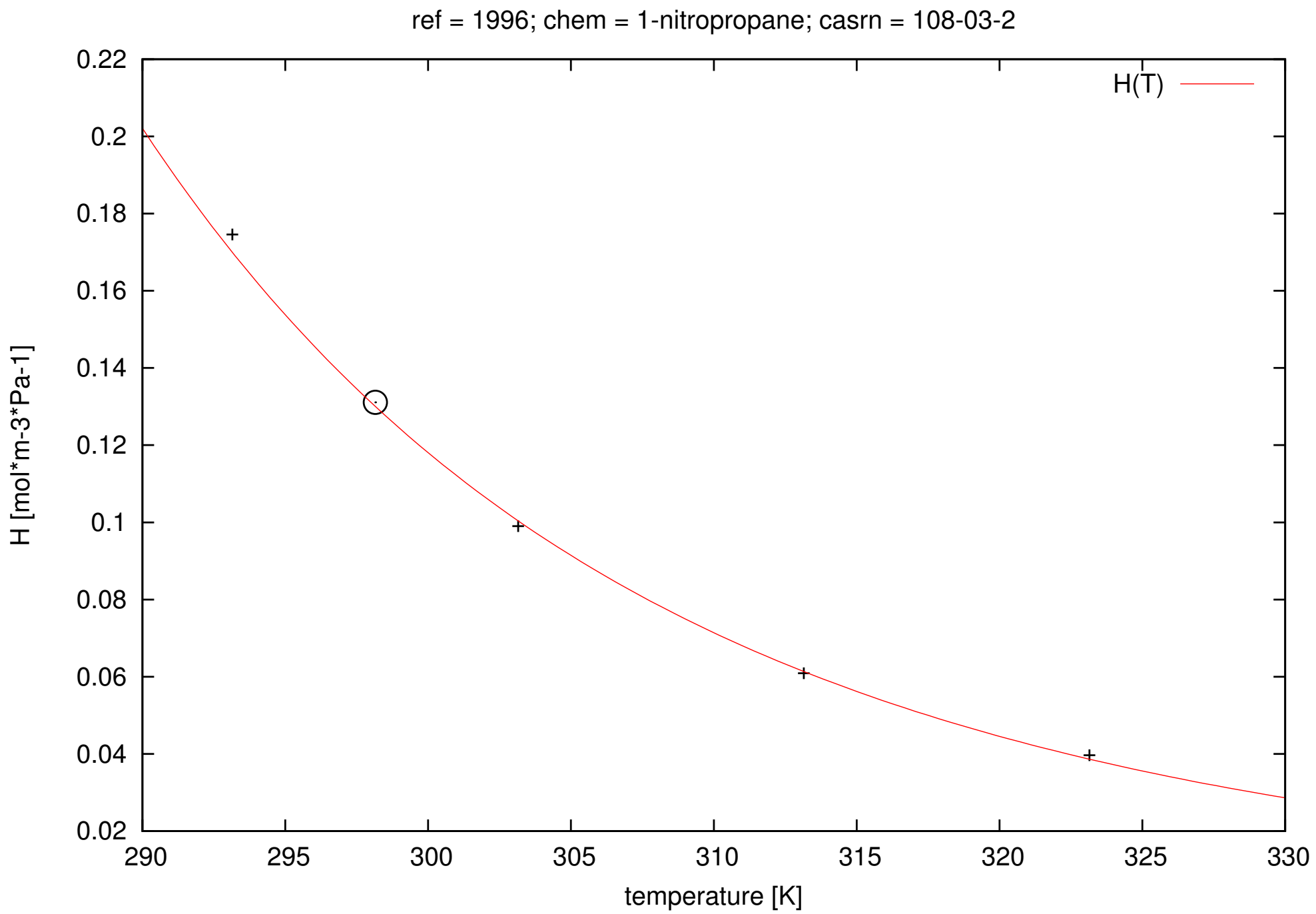

ref = 1943; chem = metolachlor; casrn = 51218-45-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
2500
2000
1500
1000
500
0
290
295
300
305
310
315
320

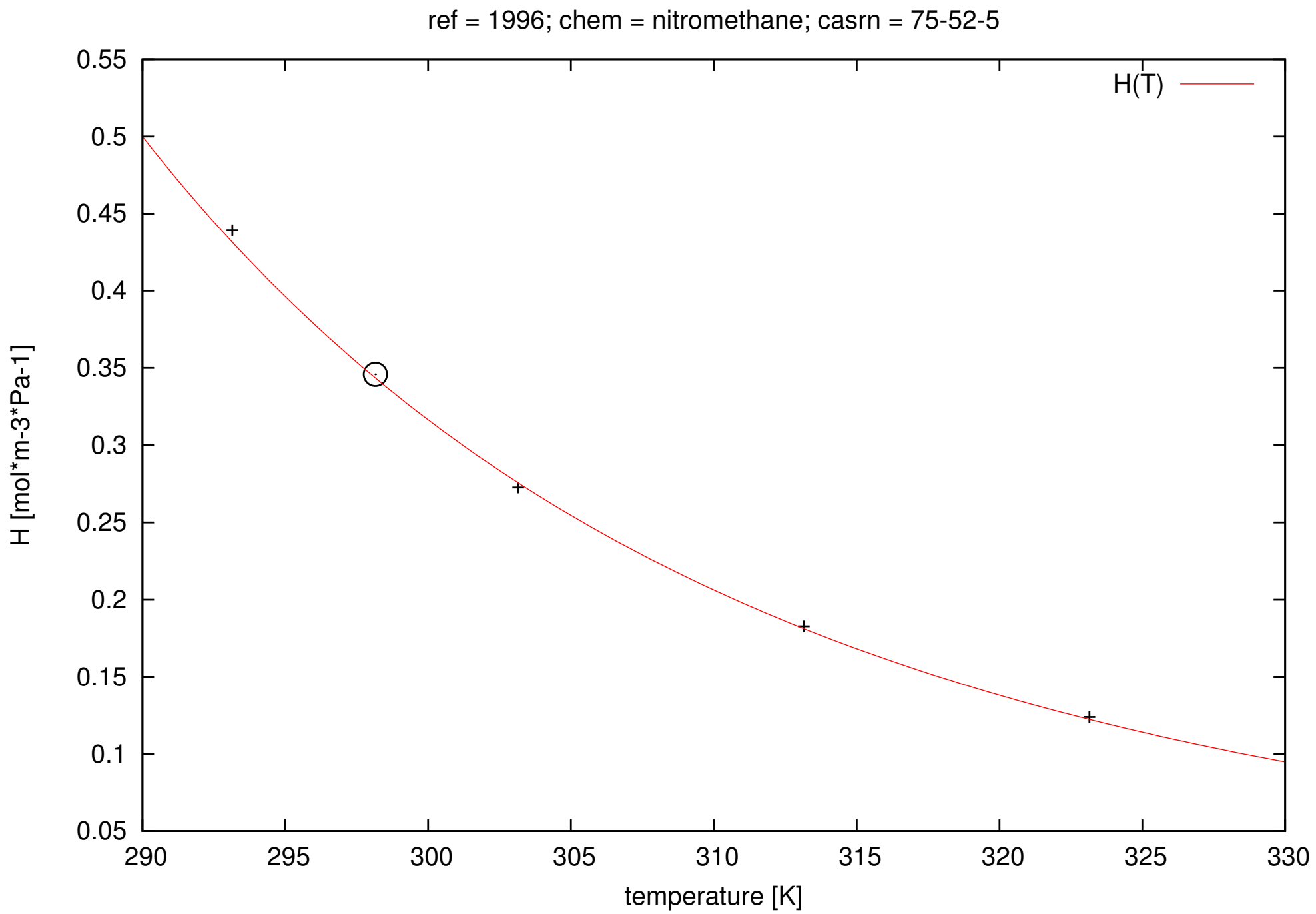

ref = 1943; chem = iodoethane; casrn = 75-03-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0
270
275
280
285
290
295
300
305
310

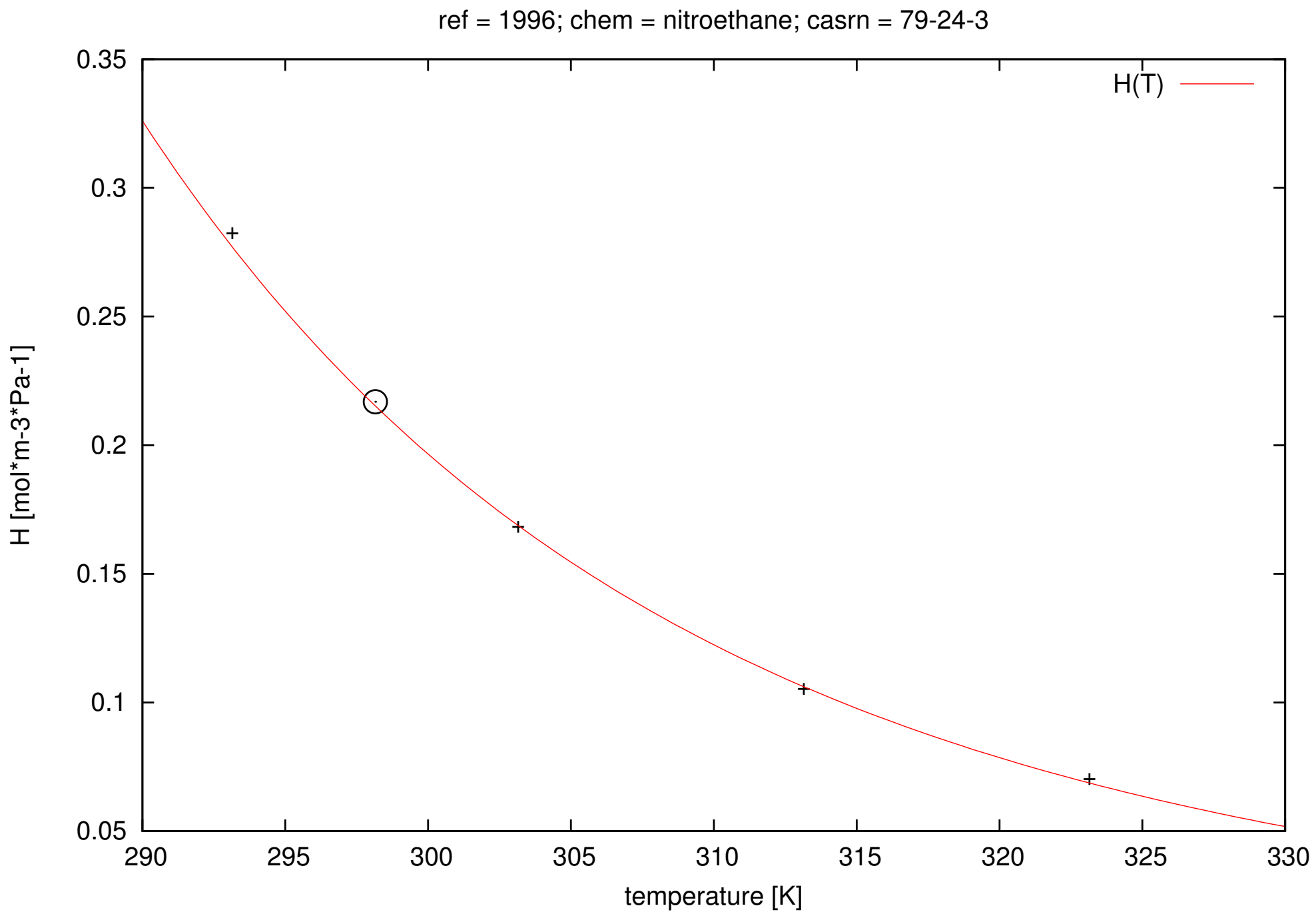

ref = 1943; chem = iodine (molecular); casrn = 7553-56-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
290
295
300
305
310
315
320
325
330

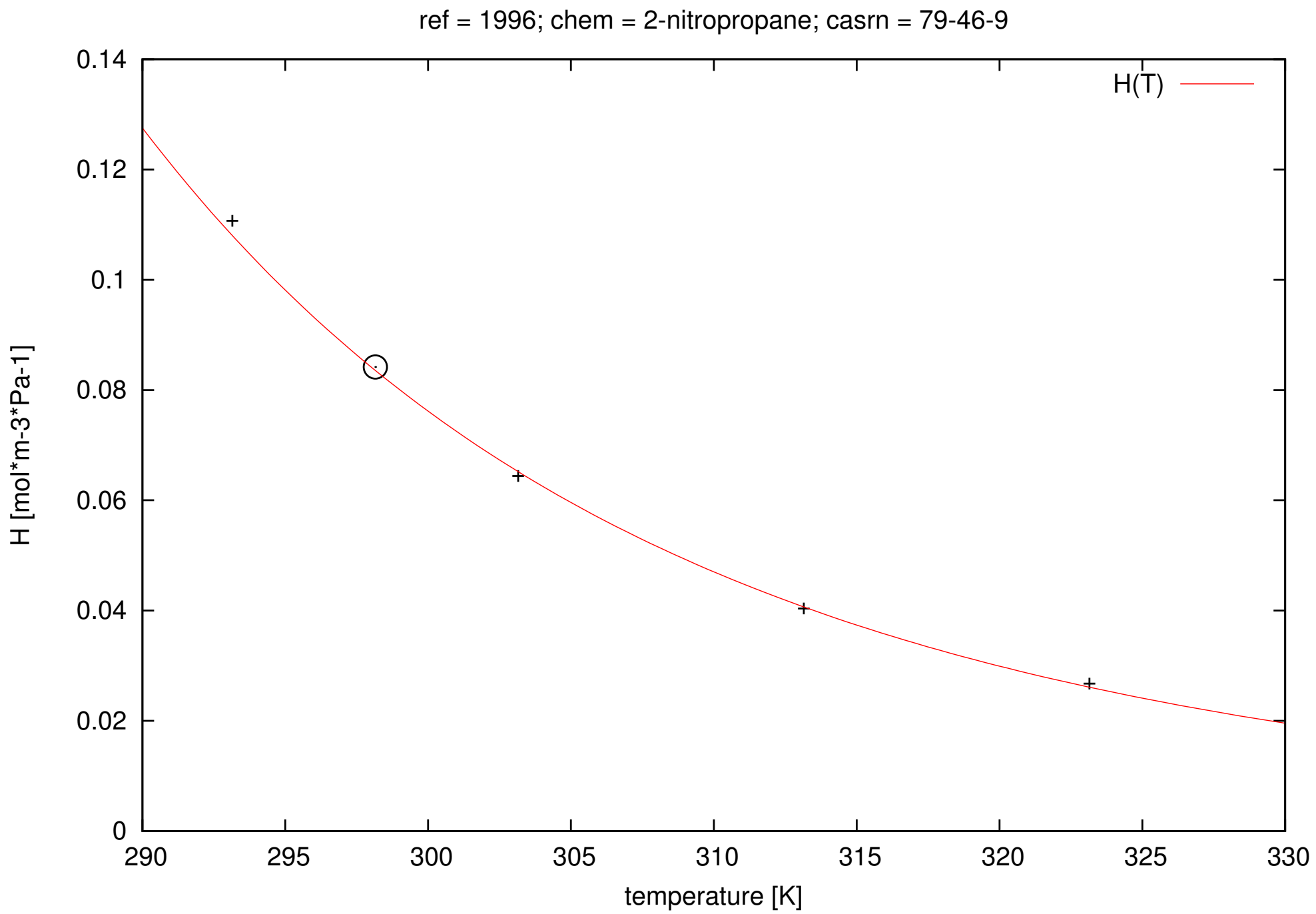

ref = 1943; chem = bromine (molecular); casrn = 7726-95-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
270
280
290
300
310
320
330

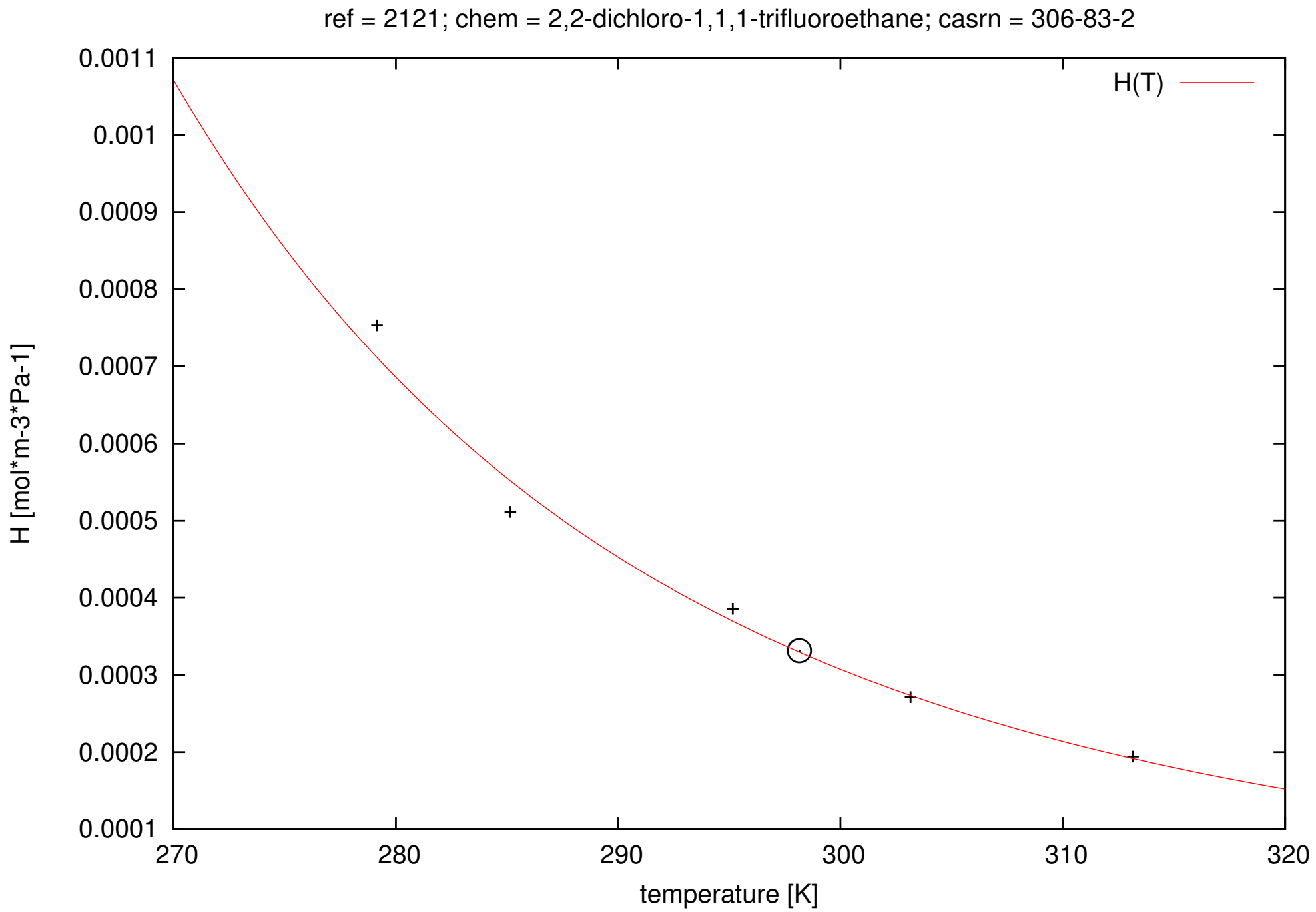

ref = 1992; chem = phosgene; casrn = 75-44-5
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
280
285
290
295
300
305
310
315
320

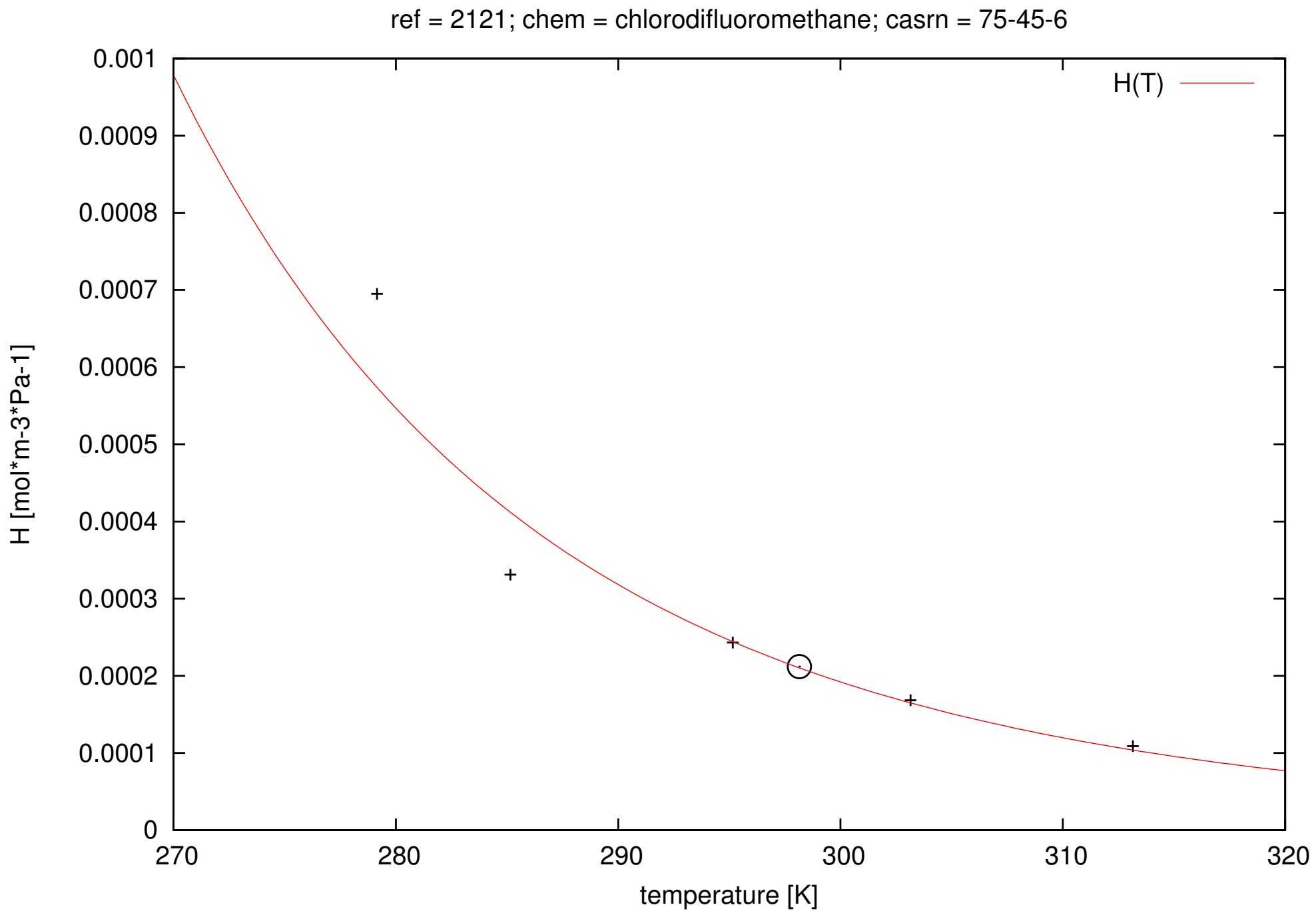

ref = 1996; chem = 1-nitropropane; casrn = 108-03-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
290
295
300
305
310
315
320
325
330

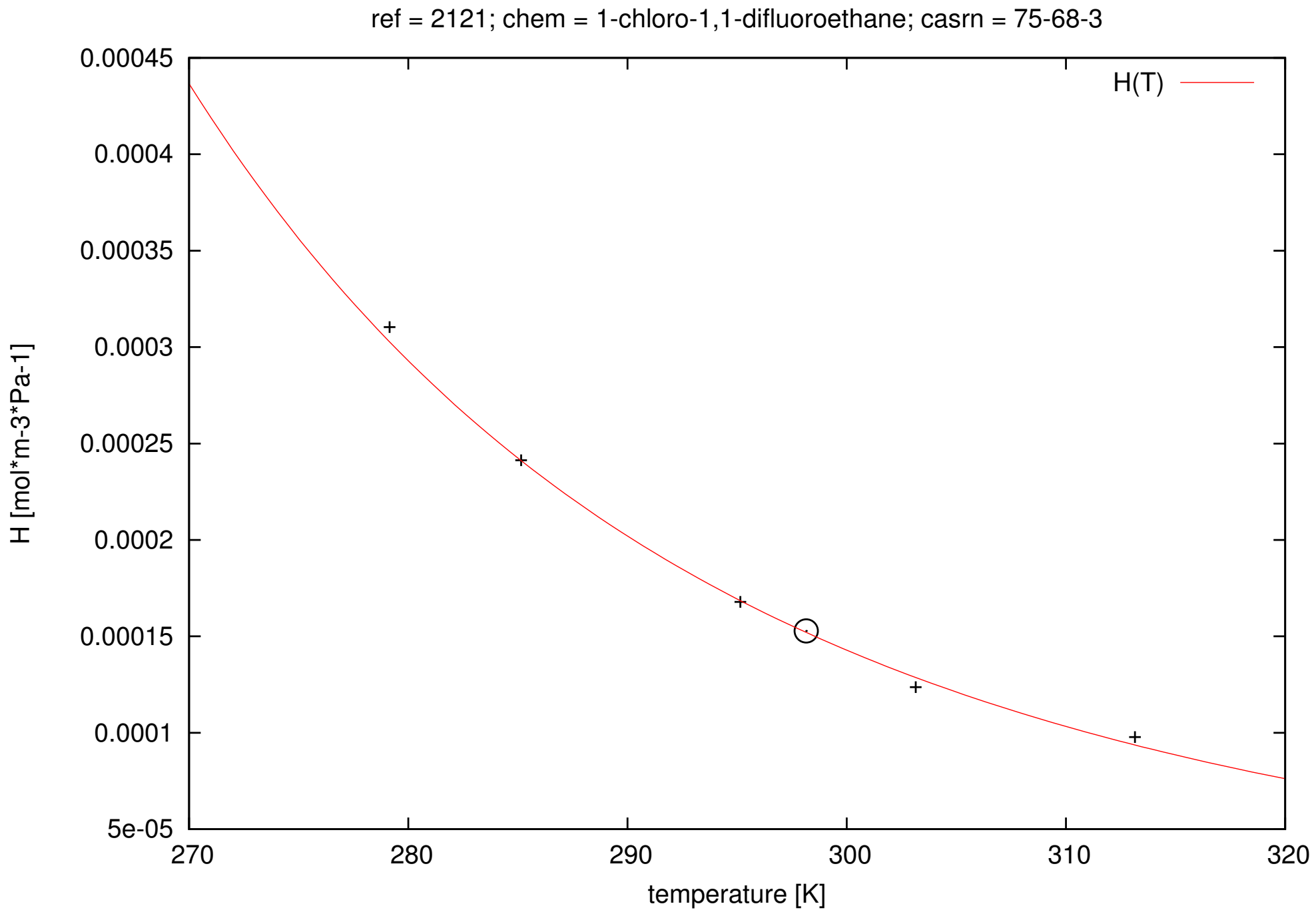

ref = 1996; chem = nitromethane; casrn = 75-52-5
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
290
295
300
305
310
315
320
325
330

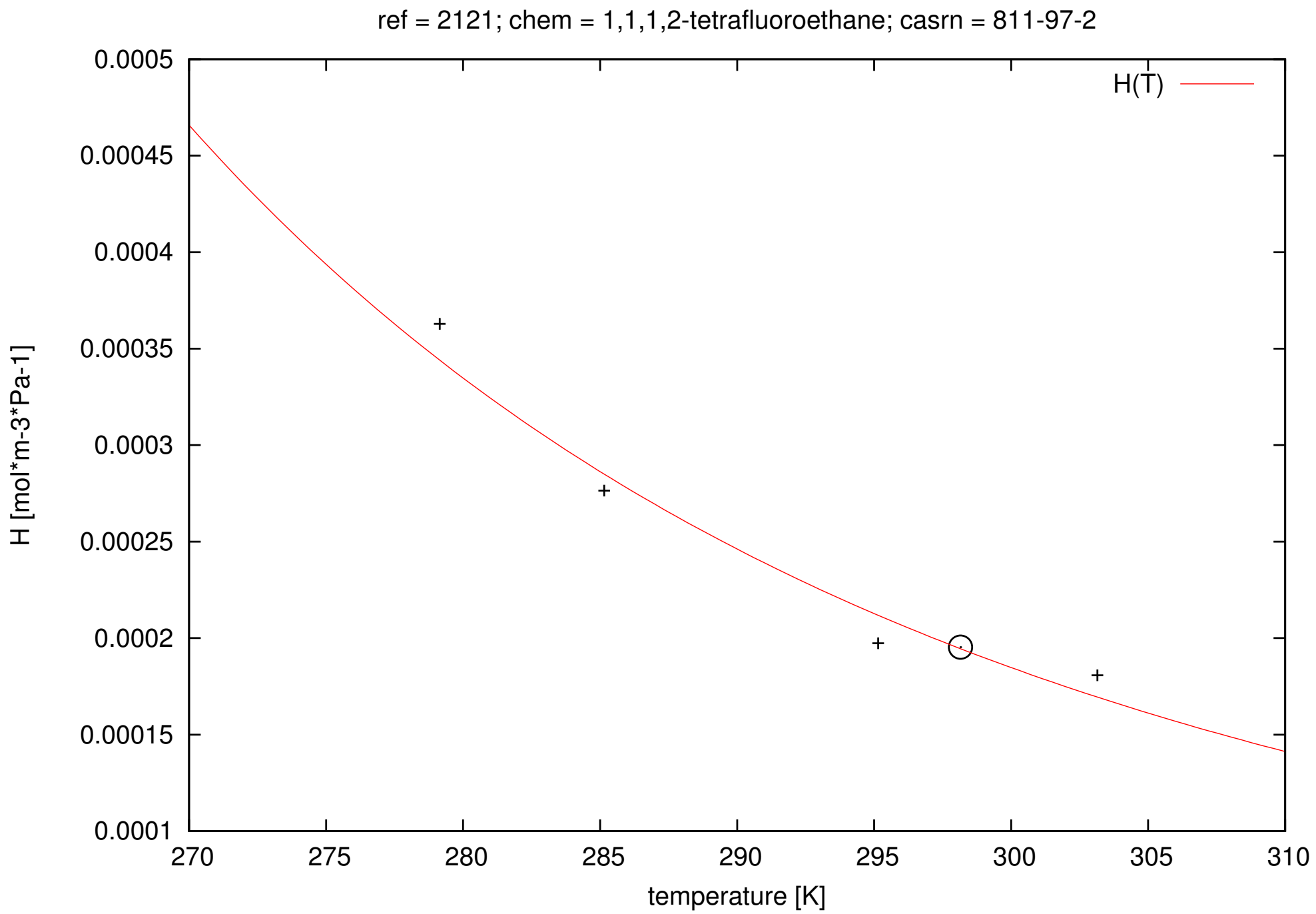

ref = 1996; chem = nitroethane; casrn = 79-24-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.35
0.3
0.25
0.2
0.15
0.1
0.05
290
295
300
305
310
315
320
325
330


ref = 1996; chem = 2-nitropropane; casrn = 79-46-9
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
290
295
300
305
310
315
320
325
330

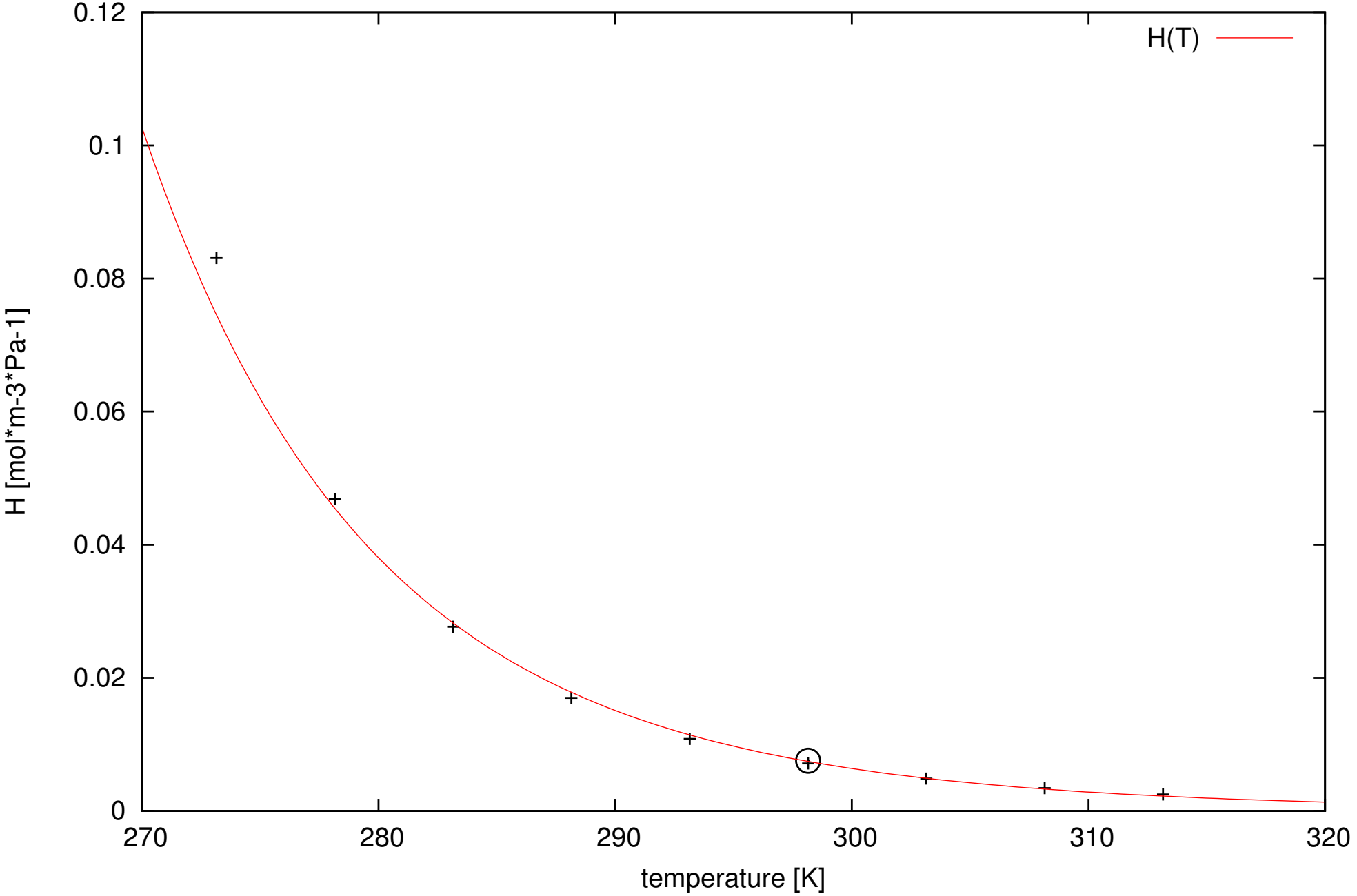

ref = 2121; chem = 2,2-dichloro-1,1,1-trifluoroethane; casrn = 306-83-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0011
0.001
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
270
280
290
300
310
320

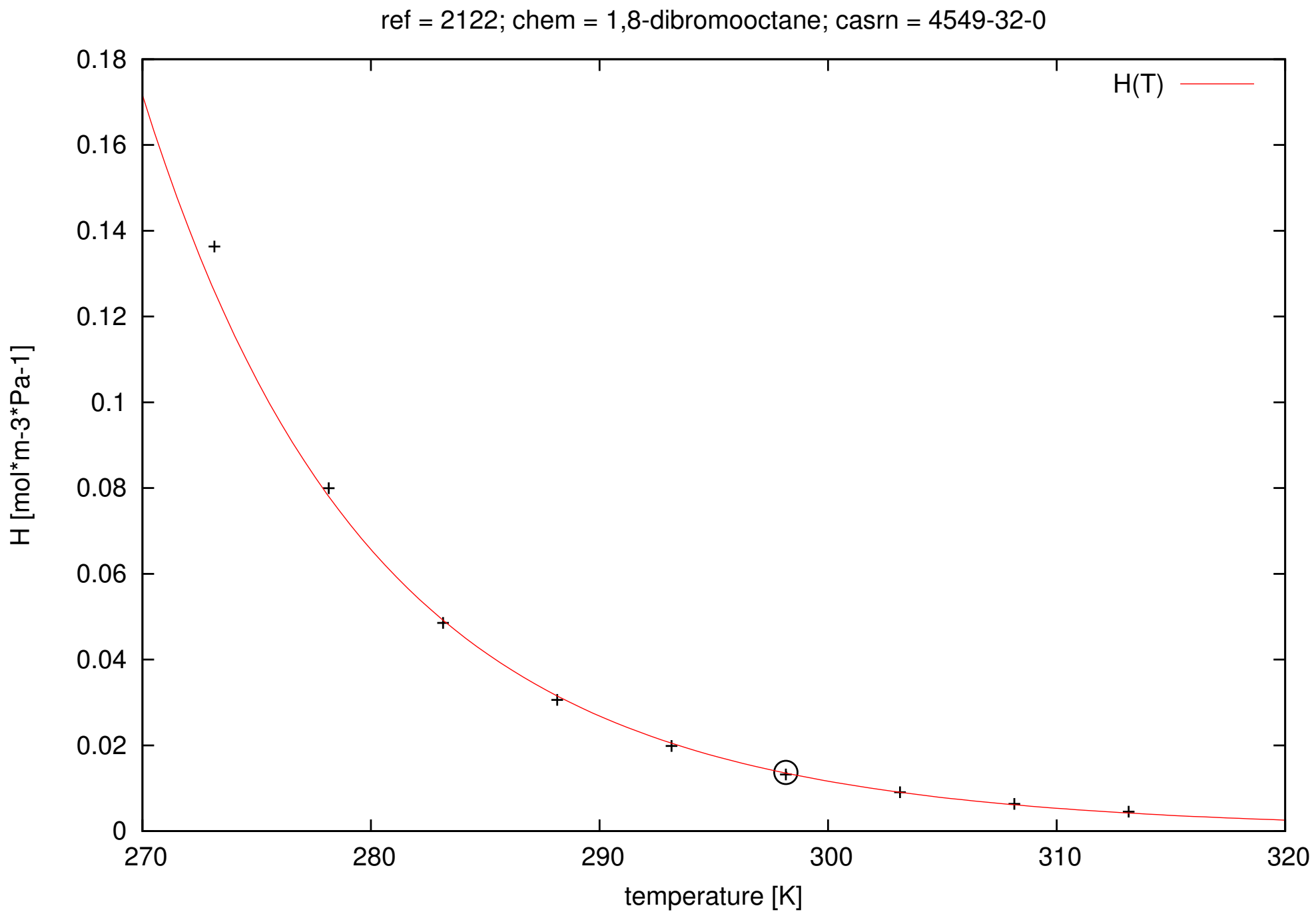

ref = 2121; chem = chlorodifluoromethane; casrn = 75-45-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.001
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0
270
280
290
300
310
320

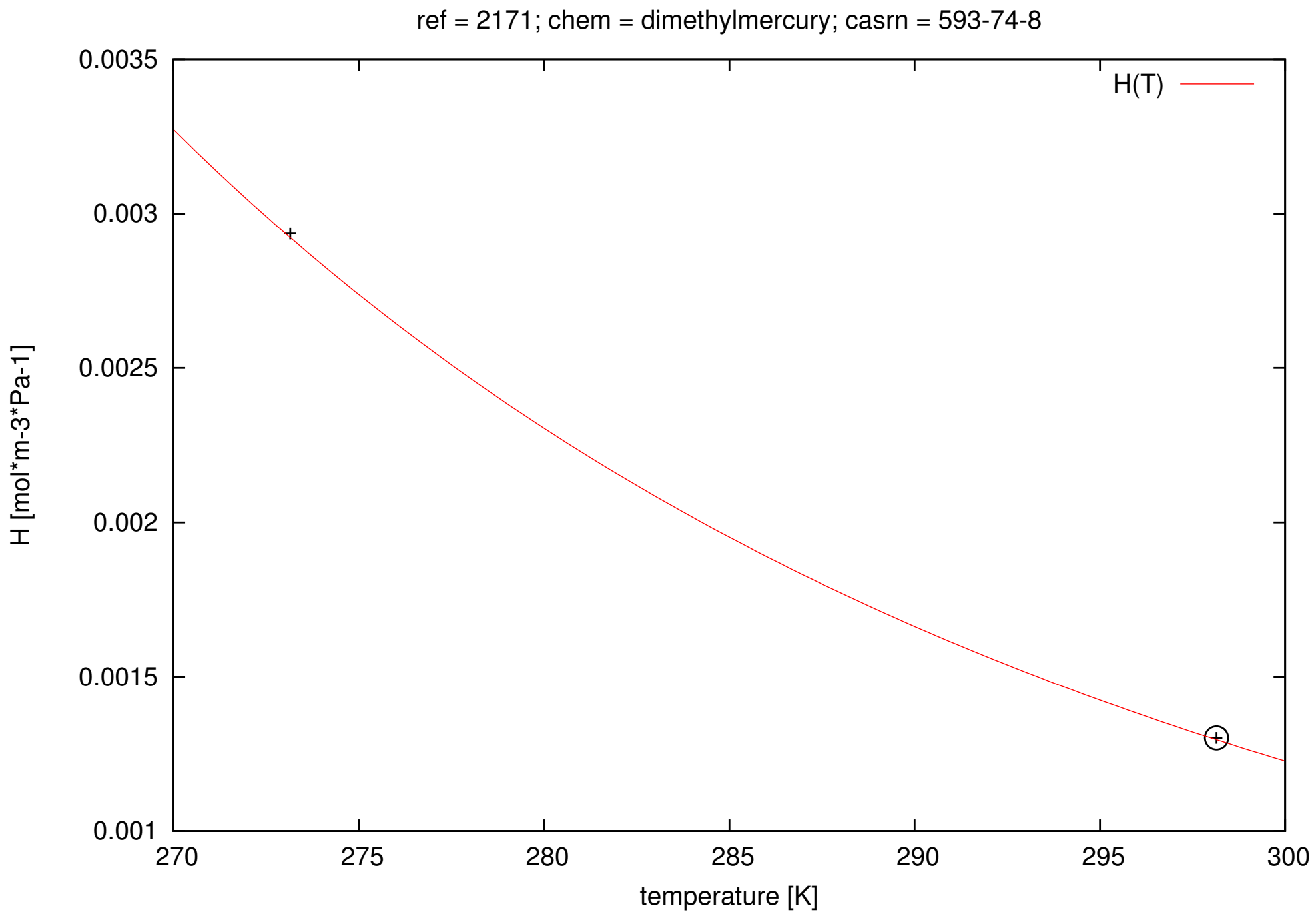

ref = 2121; chem = 1-chloro-1,1-difluoroethane; casrn = 75-68-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.00045
0.0004
0.00035
0.0003
0.00025
0.0002
0.00015
0.0001
5e-05
270
280
290
300
310
320

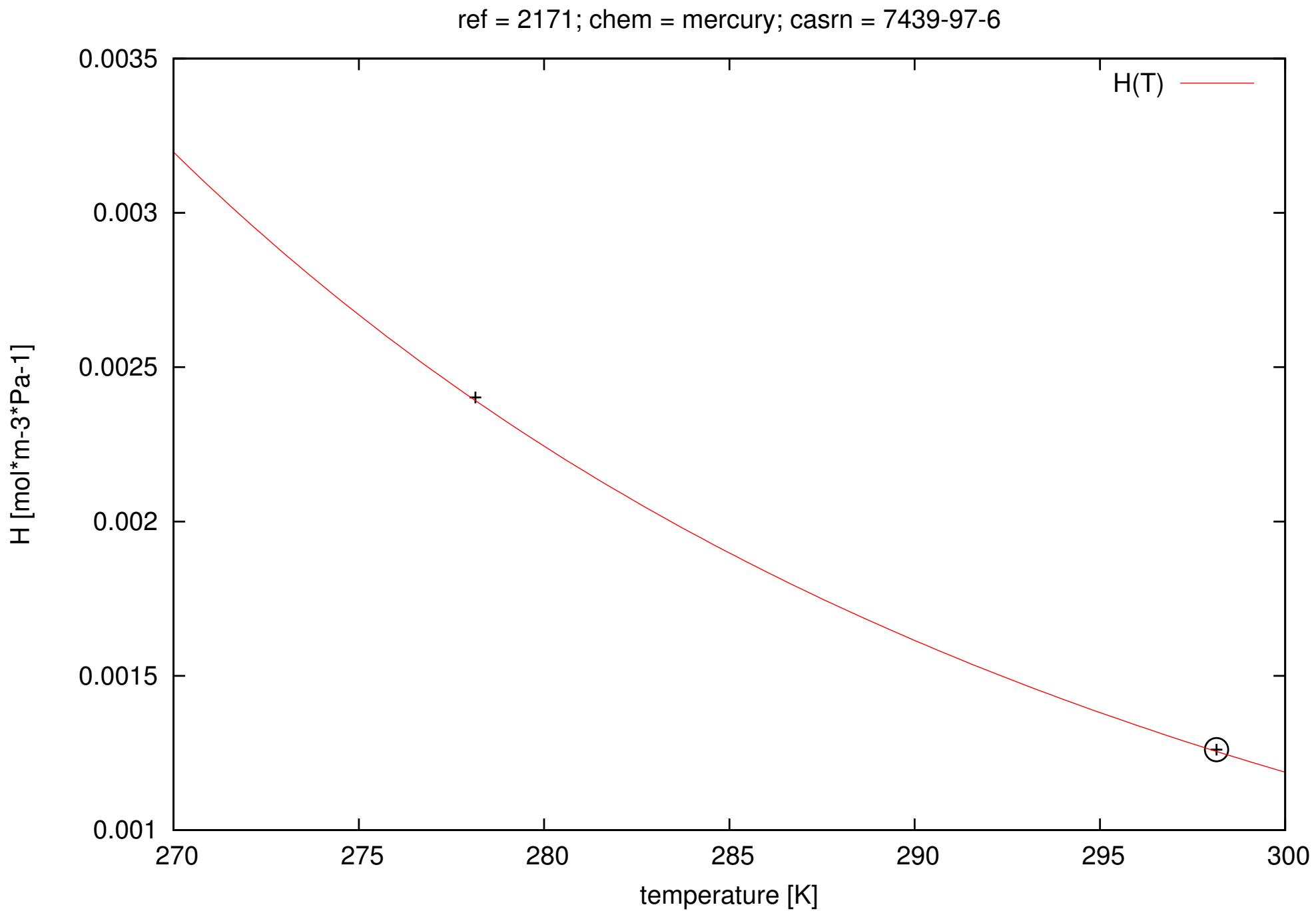

ref = 2121; chem = 1,1,1,2-tetrafluoroethane; casrn = 811-97-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0005
0.00045
0.0004
0.00035
0.0003
0.00025
0.0002
0.00015
0.0001
270
275
280
285
290
295
300
305
310

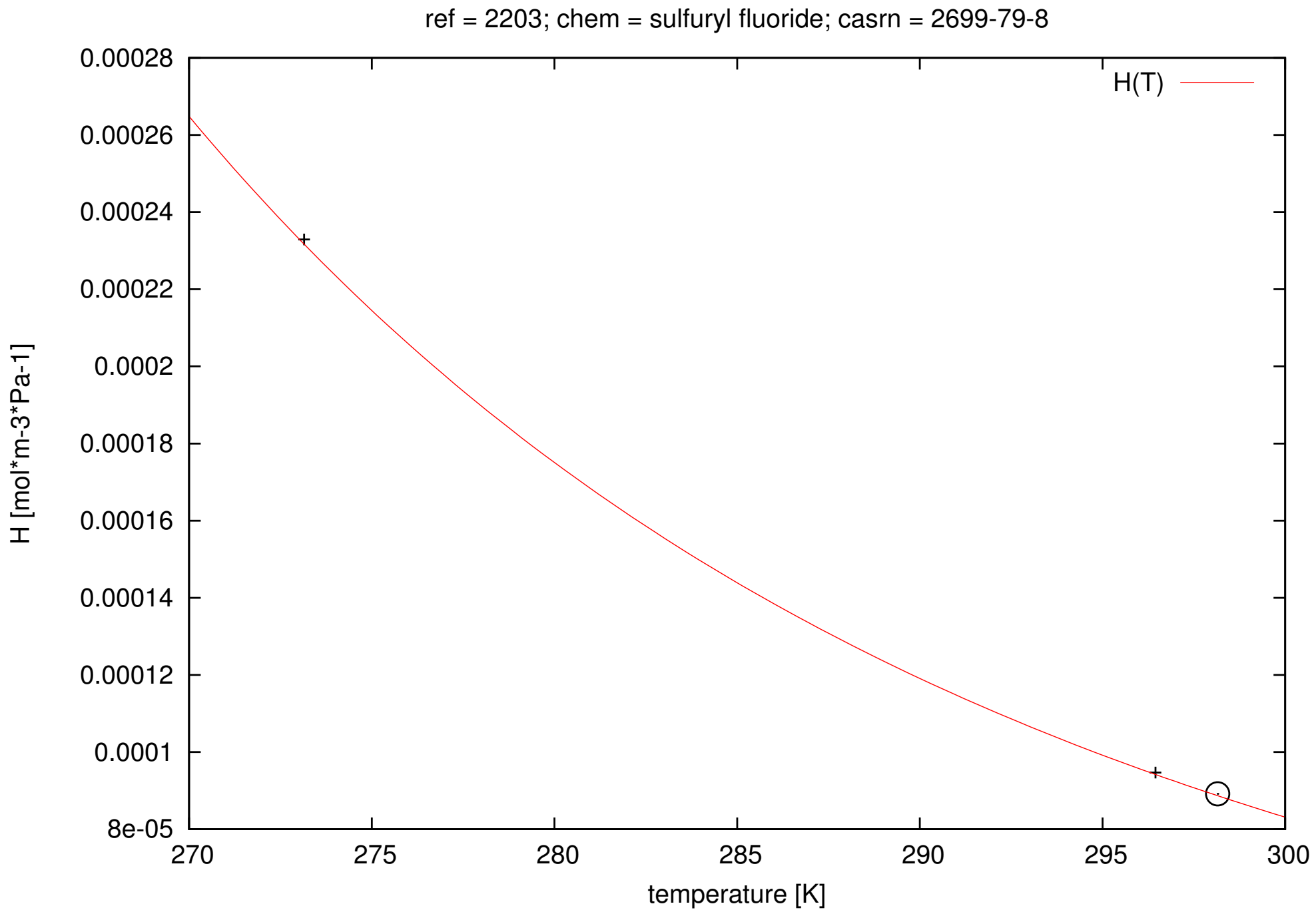
ref = 2122; chem = 1,8-dichlorooctane; casrn = 2162-99-4

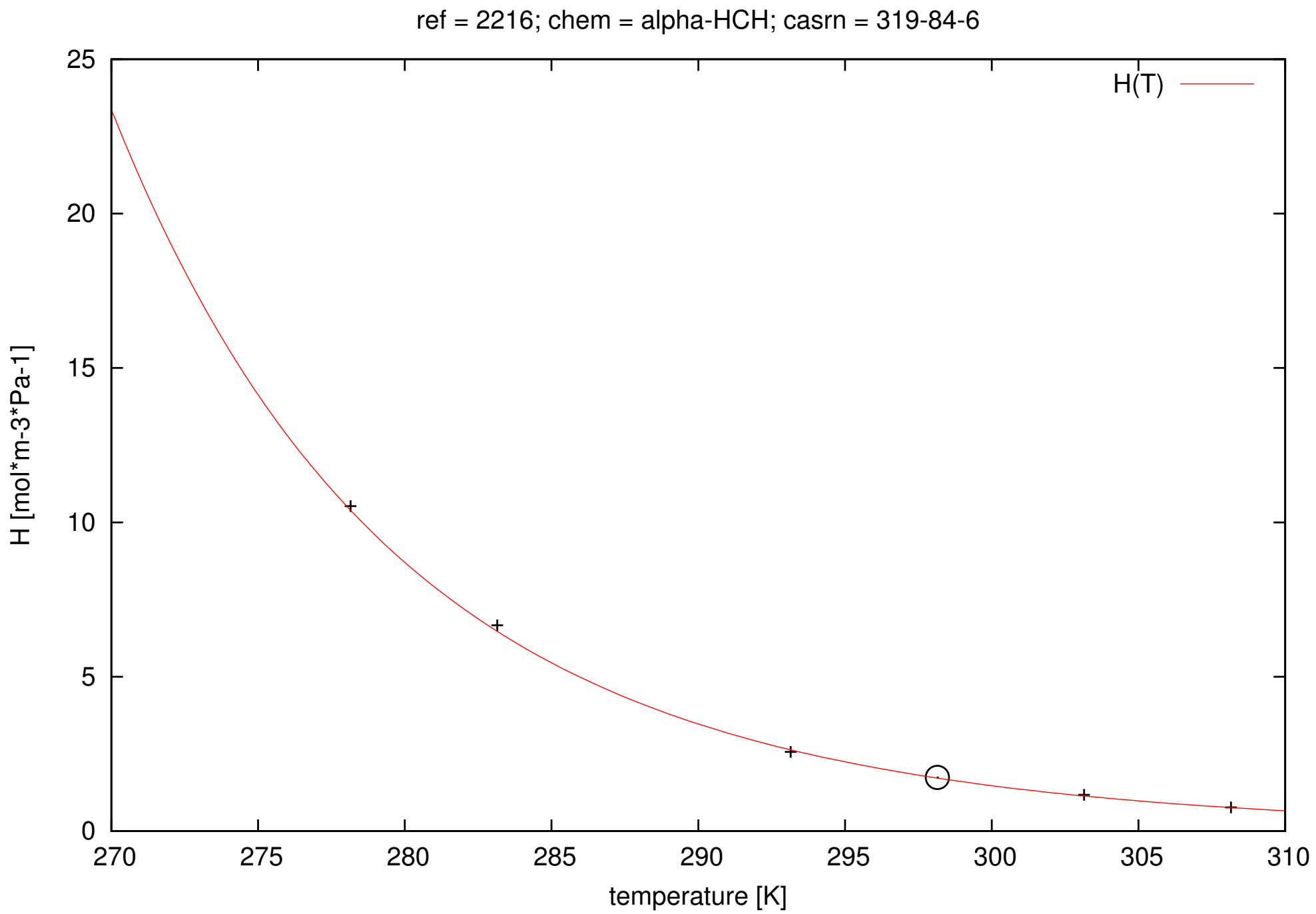


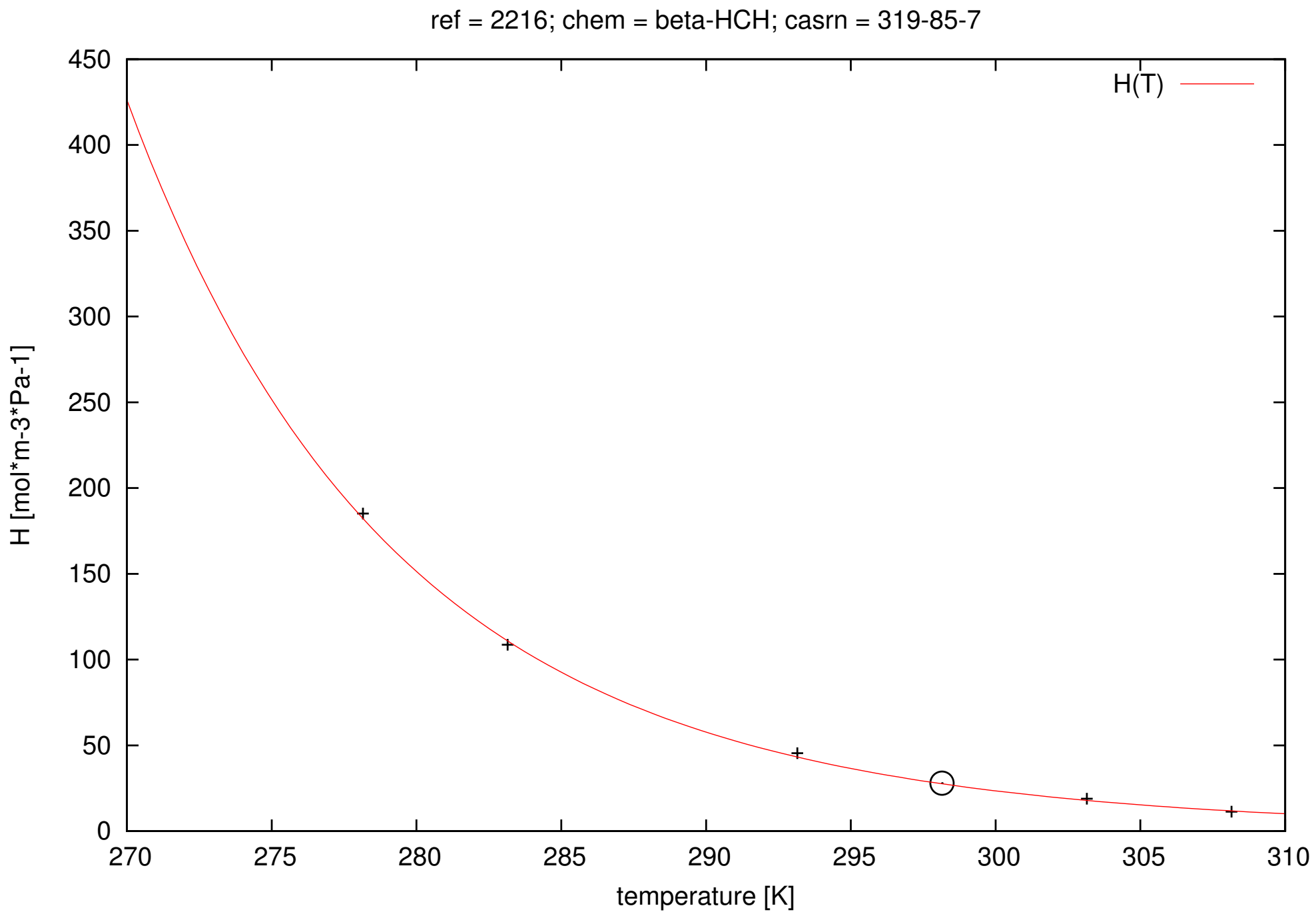

ref = 2122; chem = 1,8-dibromooctane; casrn = 4549-32-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
270
280
290
300
310
320

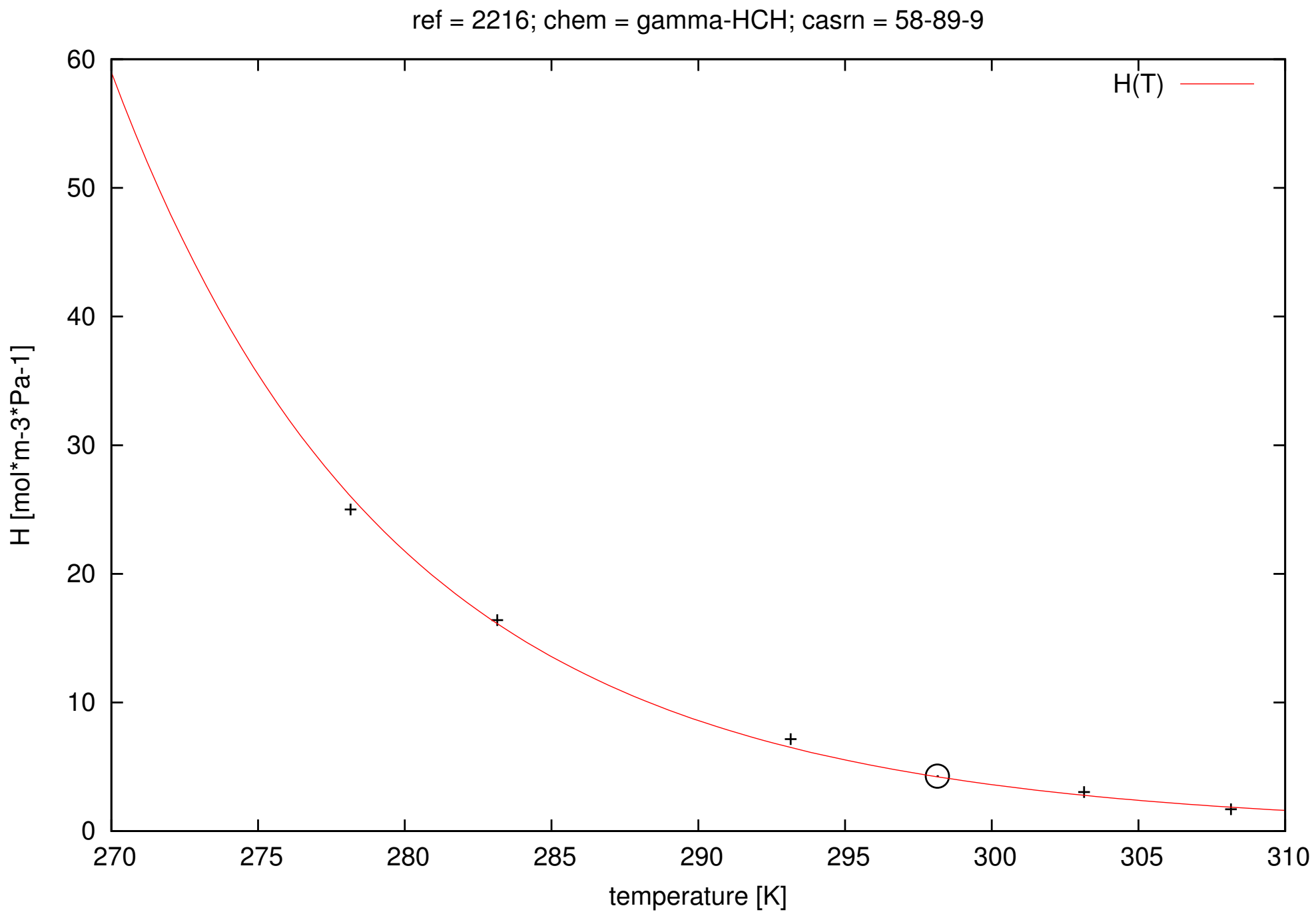

ref = 2171; chem = dimethylmercury; casrn = 593-74-8
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0035
0.003
0.0025
0.002
0.0015
0.001
270
275
280
285
290
295
300

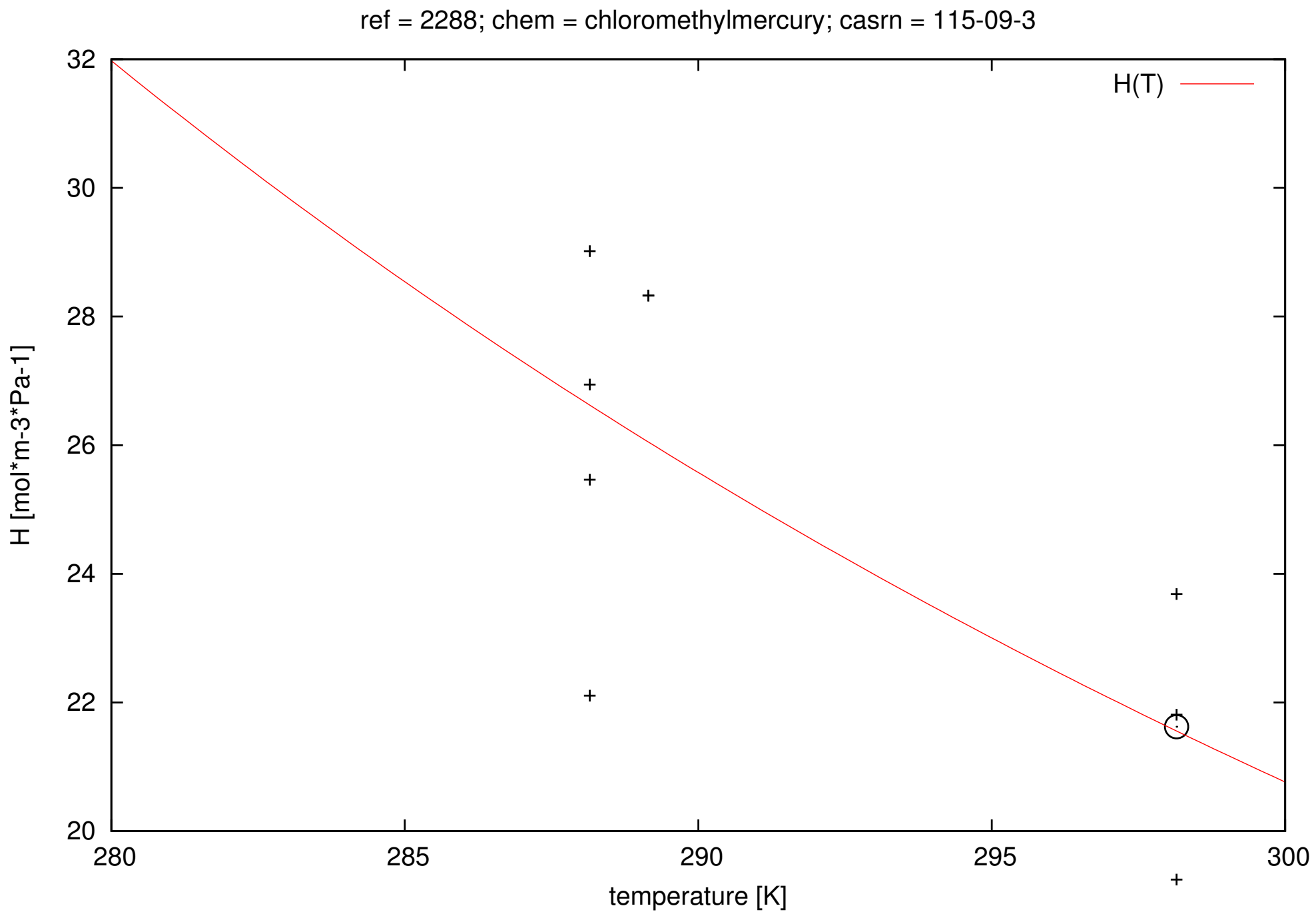

ref = 2171; chem = mercury; casrn = 7439-97-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0035
0.003
0.0025
0.002
0.0015
0.001
270
275
280
285
290
295
300

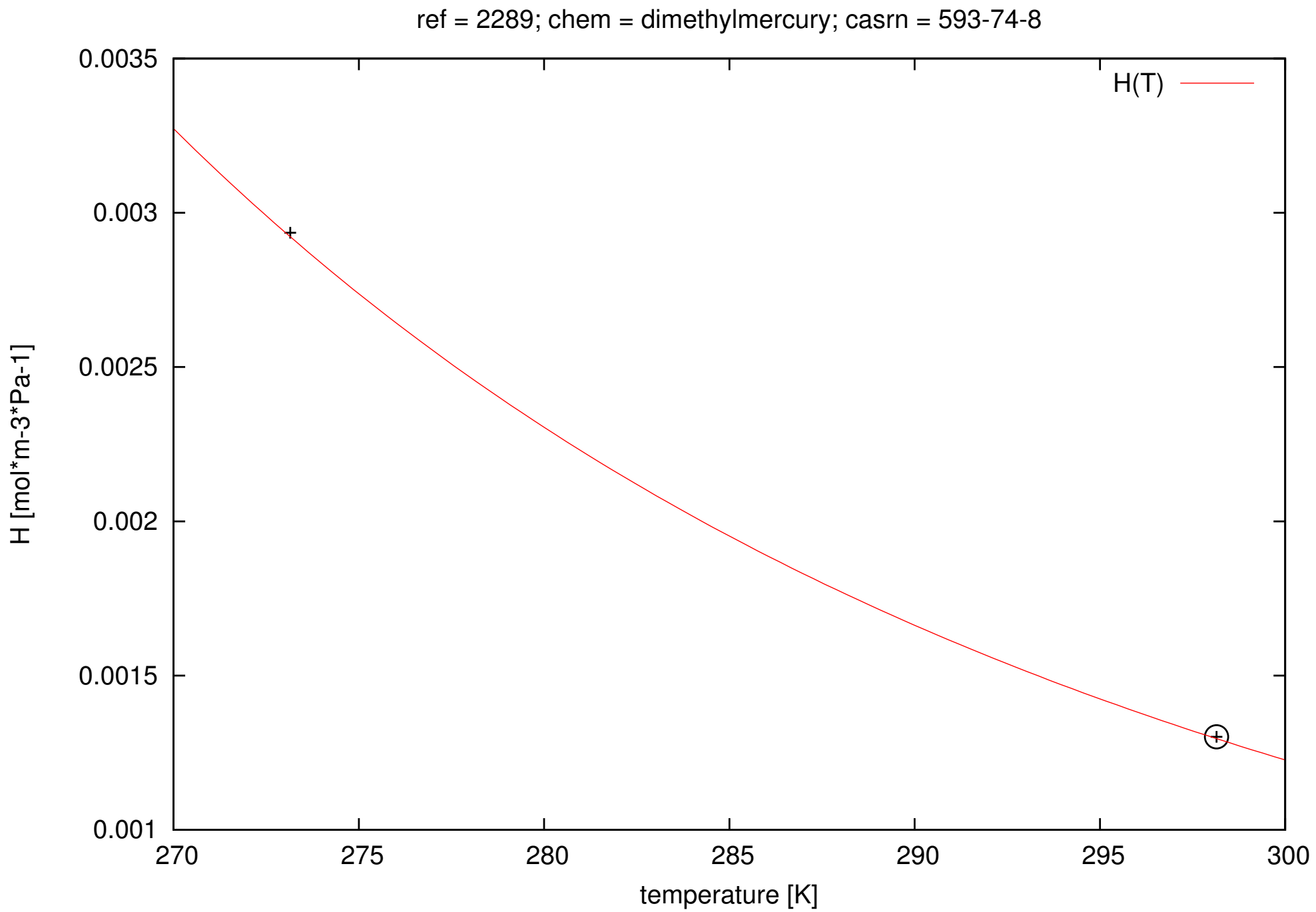

ref = 2203; chem = sulfuryl fluoride; casrn = 2699-79-8
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.00028
0.00026
0.00024
0.00022
0.0002
0.00018
0.00016
0.00014
0.00012
0.0001
8e-05
270
275
280
285
290
295
300

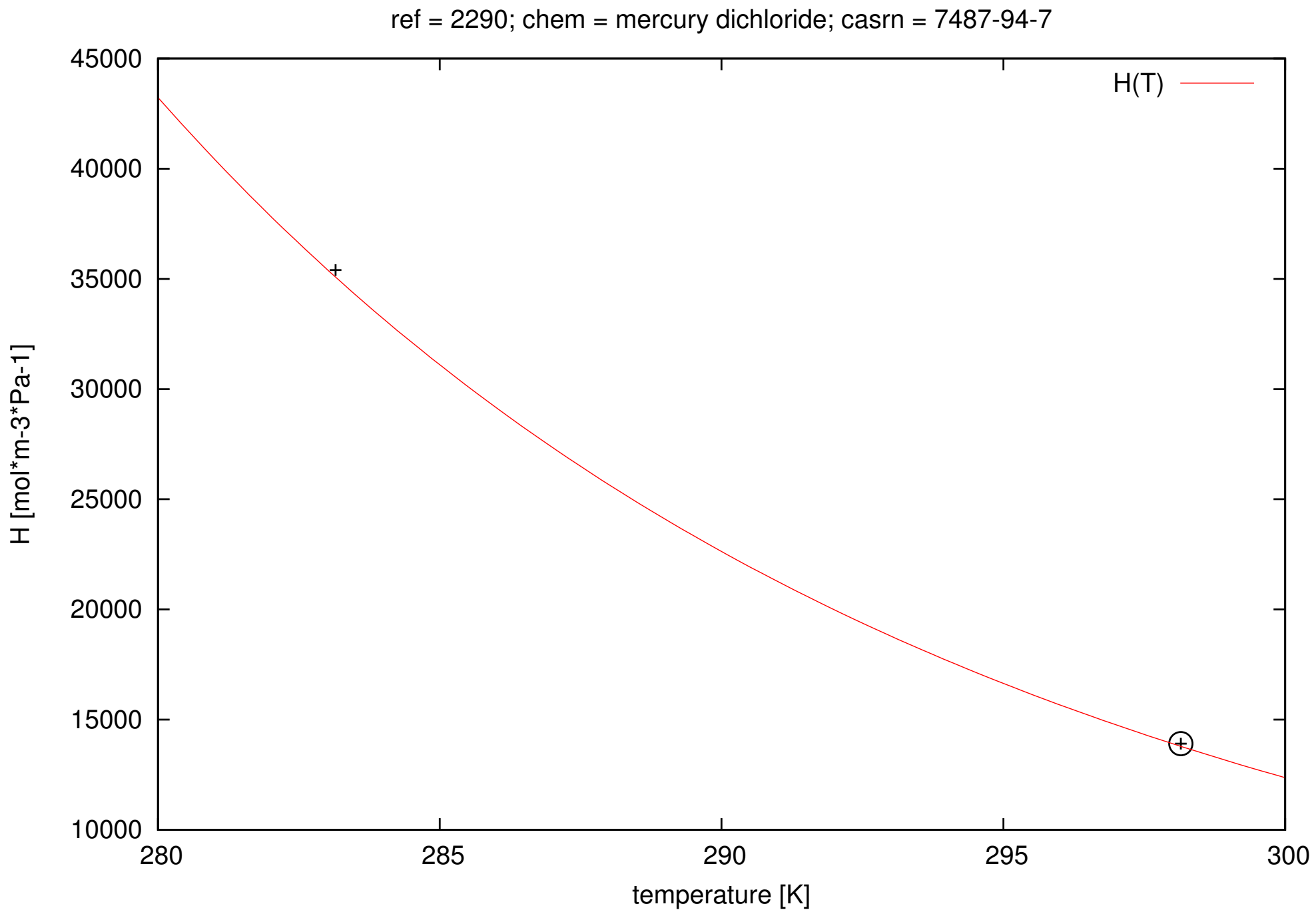

ref = 2216; chem = alpha-HCH; casrn = 319-84-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0
5
10
15
20
25
270
275
280
285
290
295
300
305
310

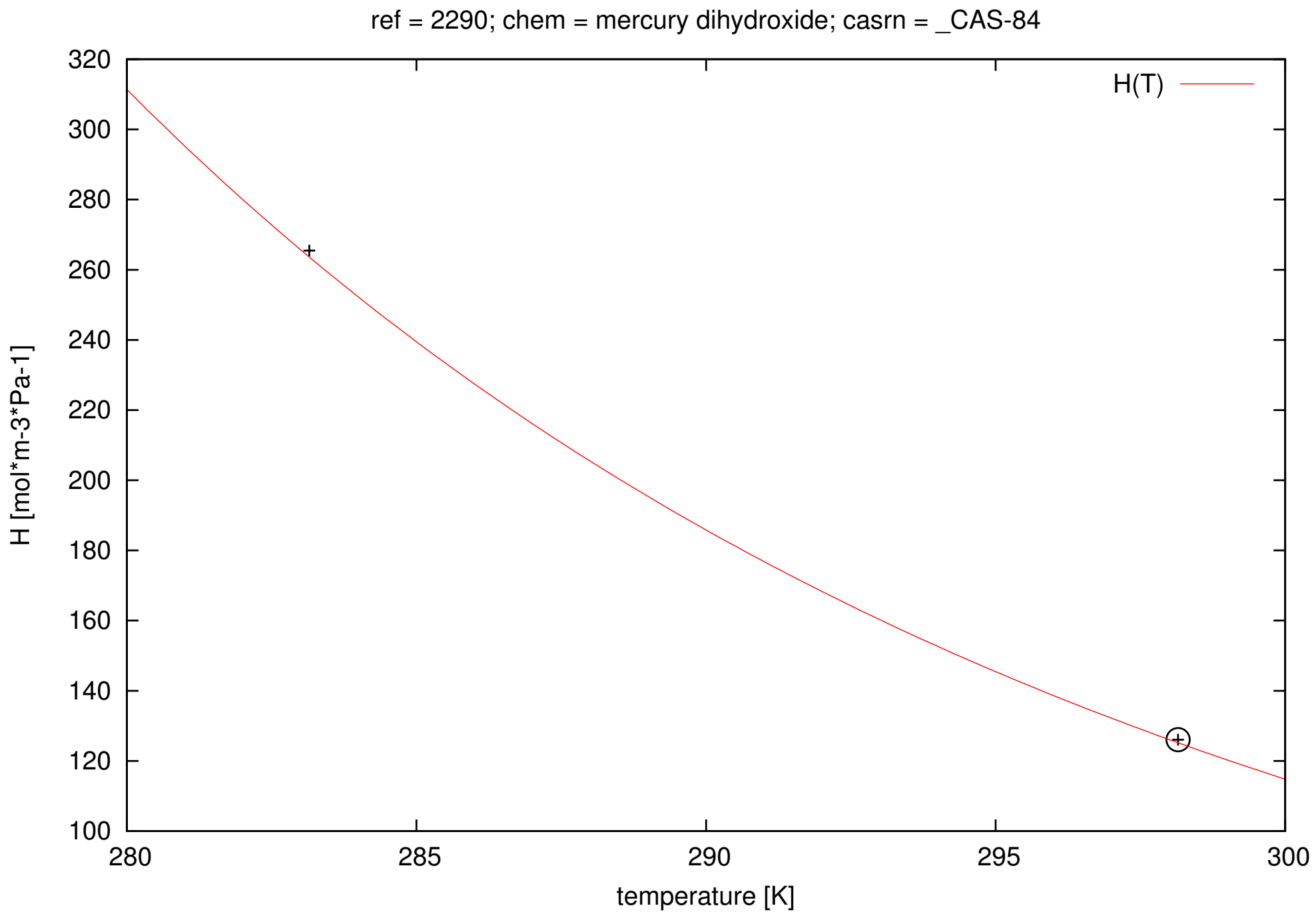

ref = 2216; chem = beta-HCH; casrn = 319-85-7
H(T)
H [mol*m-3*Pa-1]
temperature [K]
450
400
350
300
250
200
150
100
50
0
270
275
280
285
290
295
300
305
310

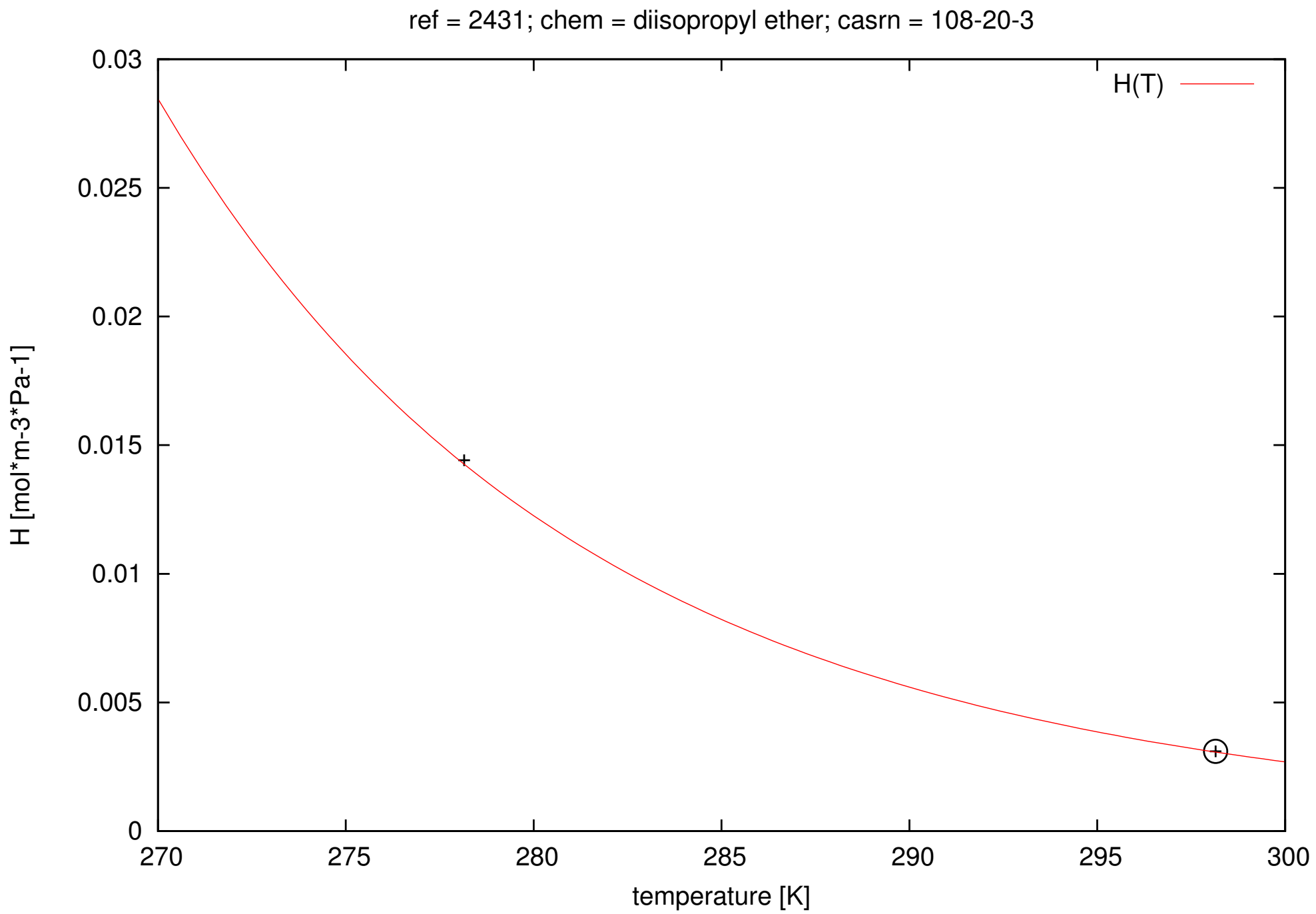

ref = 2216; chem = gamma-HCH; casrn = 58-89-9
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0
10
20
30
40
50
60
270
275
280
285
290
295
300
305
310

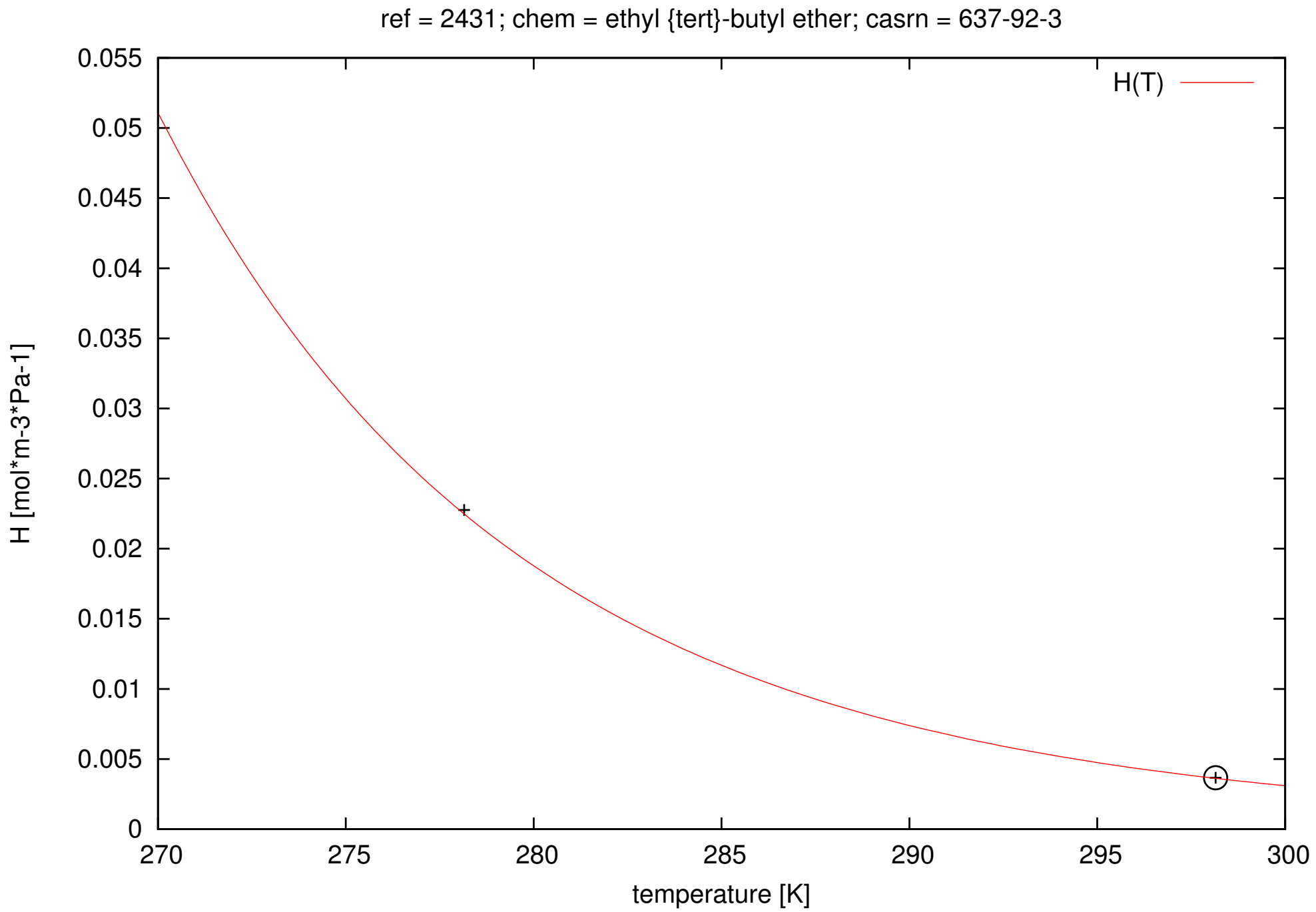

ref = 2288; chem = chloromethylmercury; casrn = 115-09-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
32
30
28
26
24
22
20
280
285
290
295
300

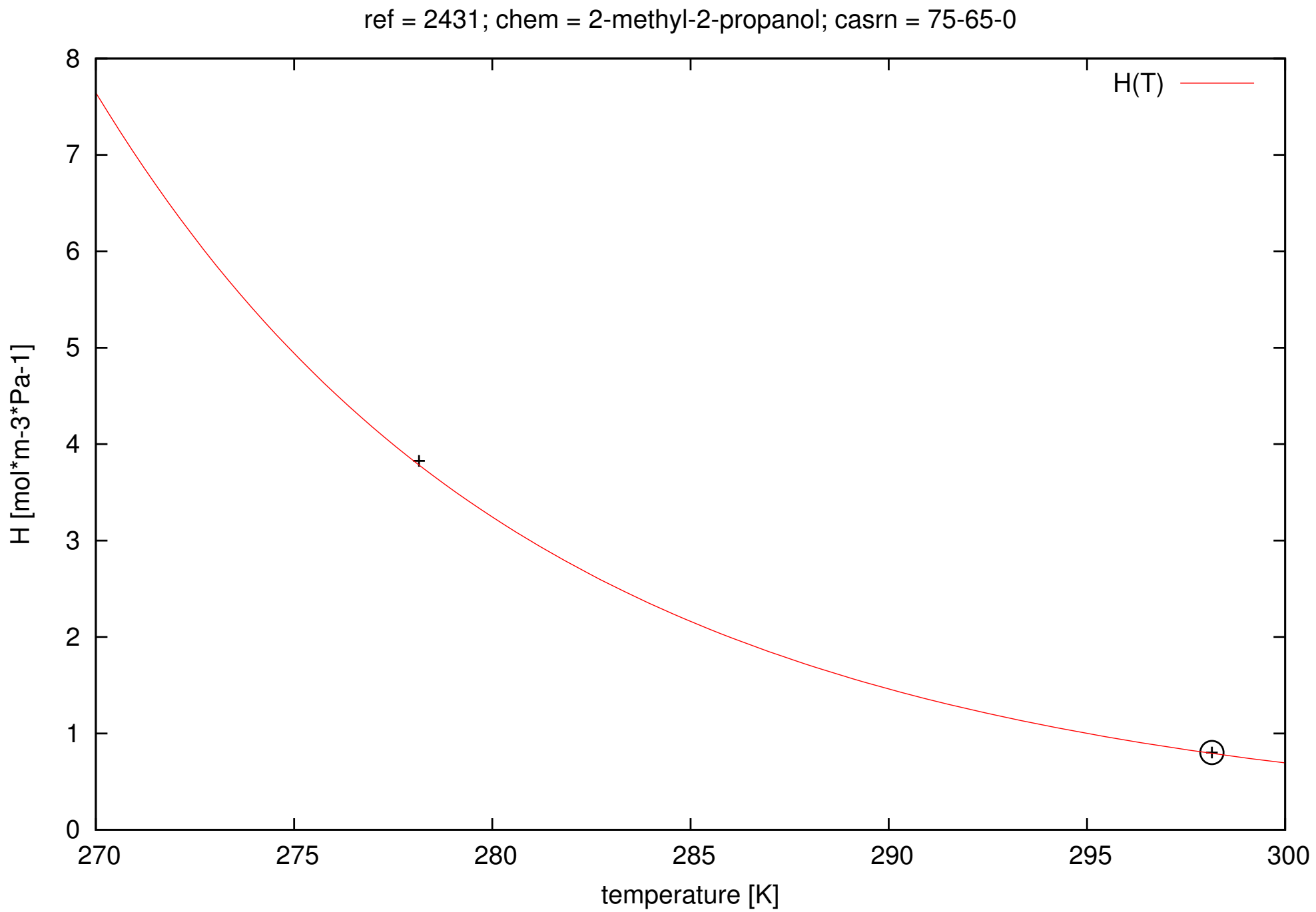

ref = 2289; chem = dimethylmercury; casrn = 593-74-8
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0035
0.003
0.0025
0.002
0.0015
0.001
270
275
280
285
290
295
300

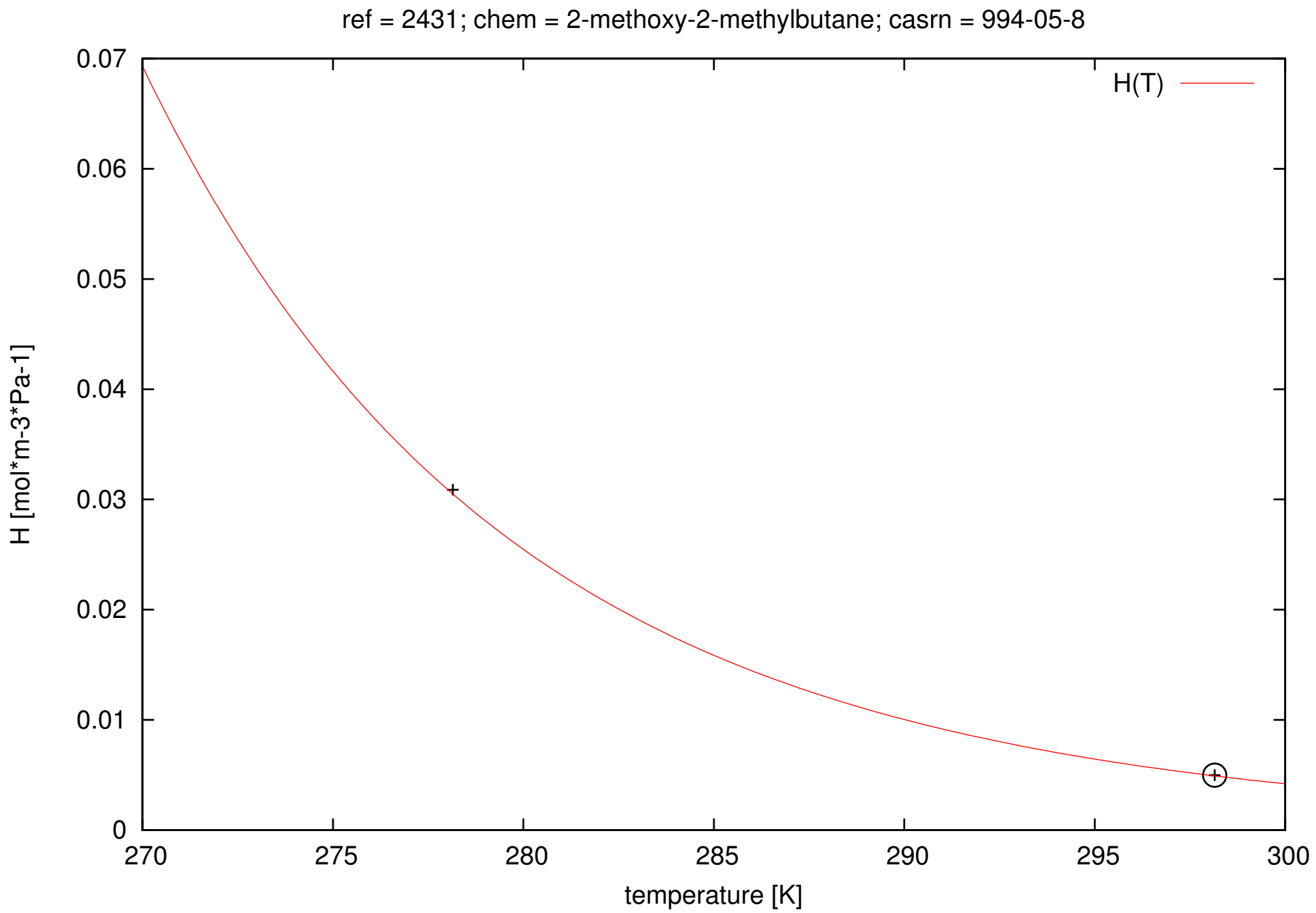

ref = 2290; chem = mercury dichloride; casrn = 7487-94-7
H(T)
H [mol*m-3*Pa-1]
temperature [K]
45000
40000
35000
30000
25000
20000
15000
10000
280
285
290
295
300

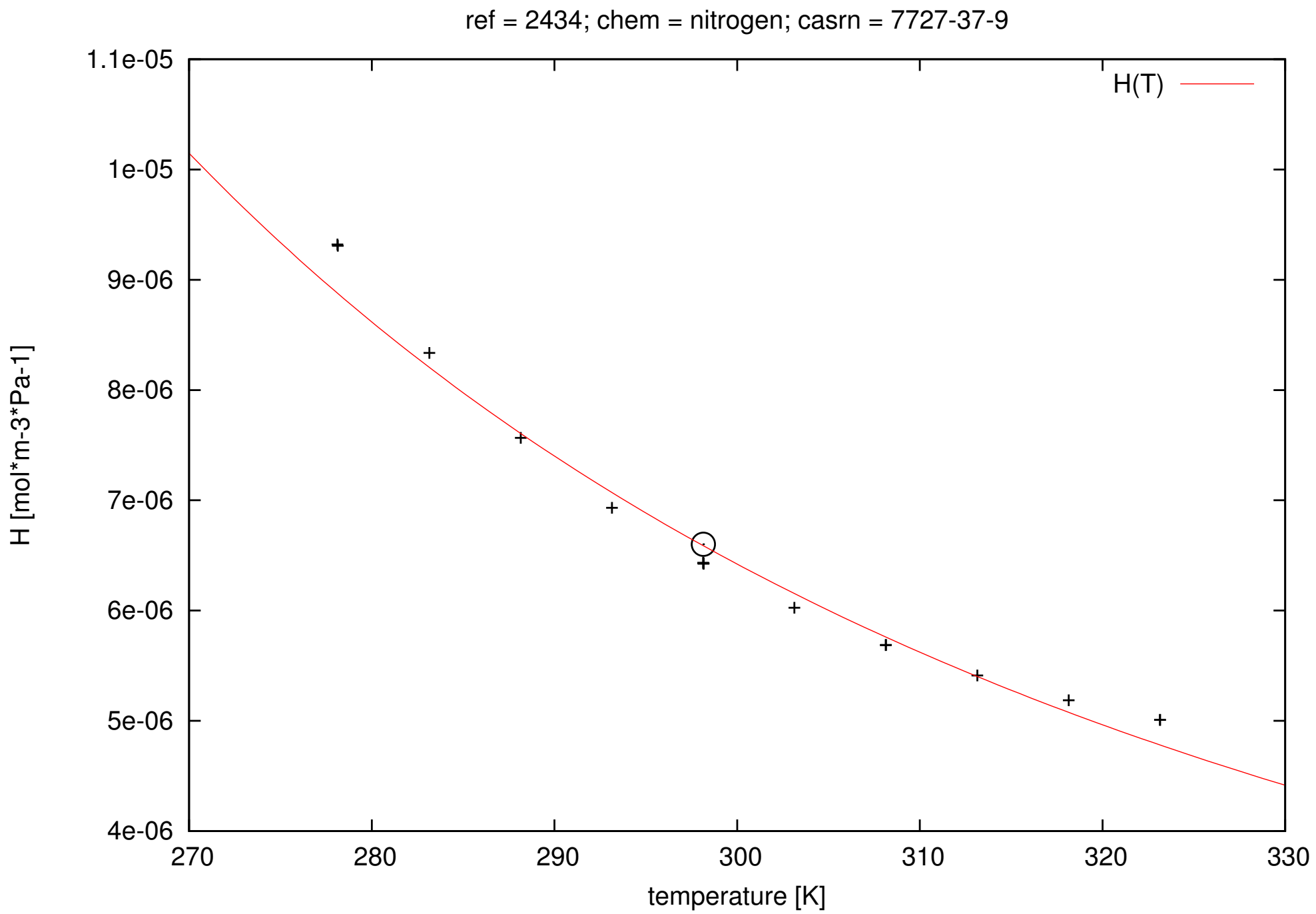

ref = 2290; chem = mercury dihydroxide; casrn = _CAS-84
H(T)
H [mol*m-3*Pa-1]
temperature [K]
320
300
280
260
240
220
200
180
160
140
120
100
280
285
290
295
300

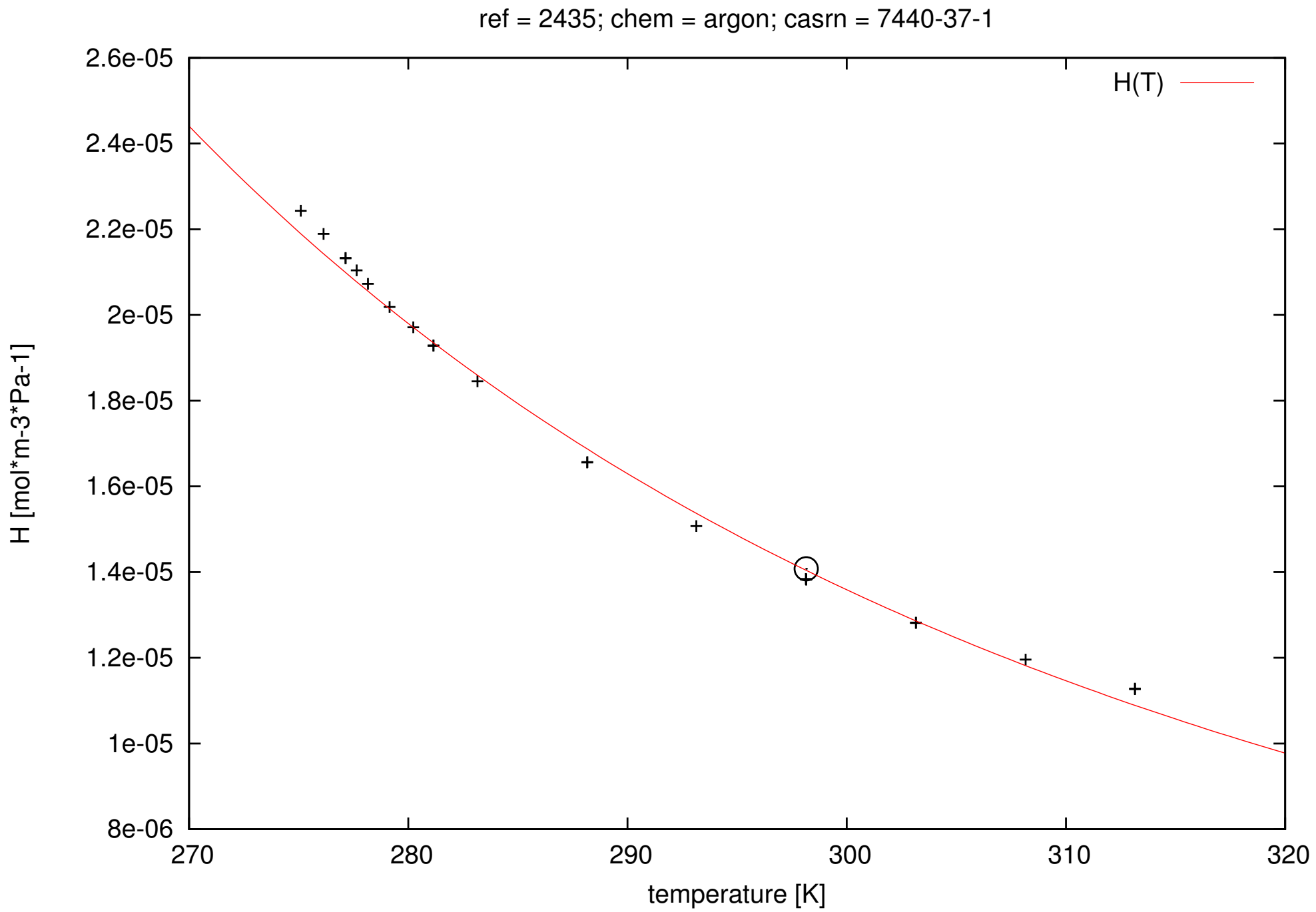

ref = 2431; chem = diisopropyl ether; casrn = 108-20-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.03
0.025
0.02
0.015
0.01
0.005
0
270
275
280
285
290
295
300

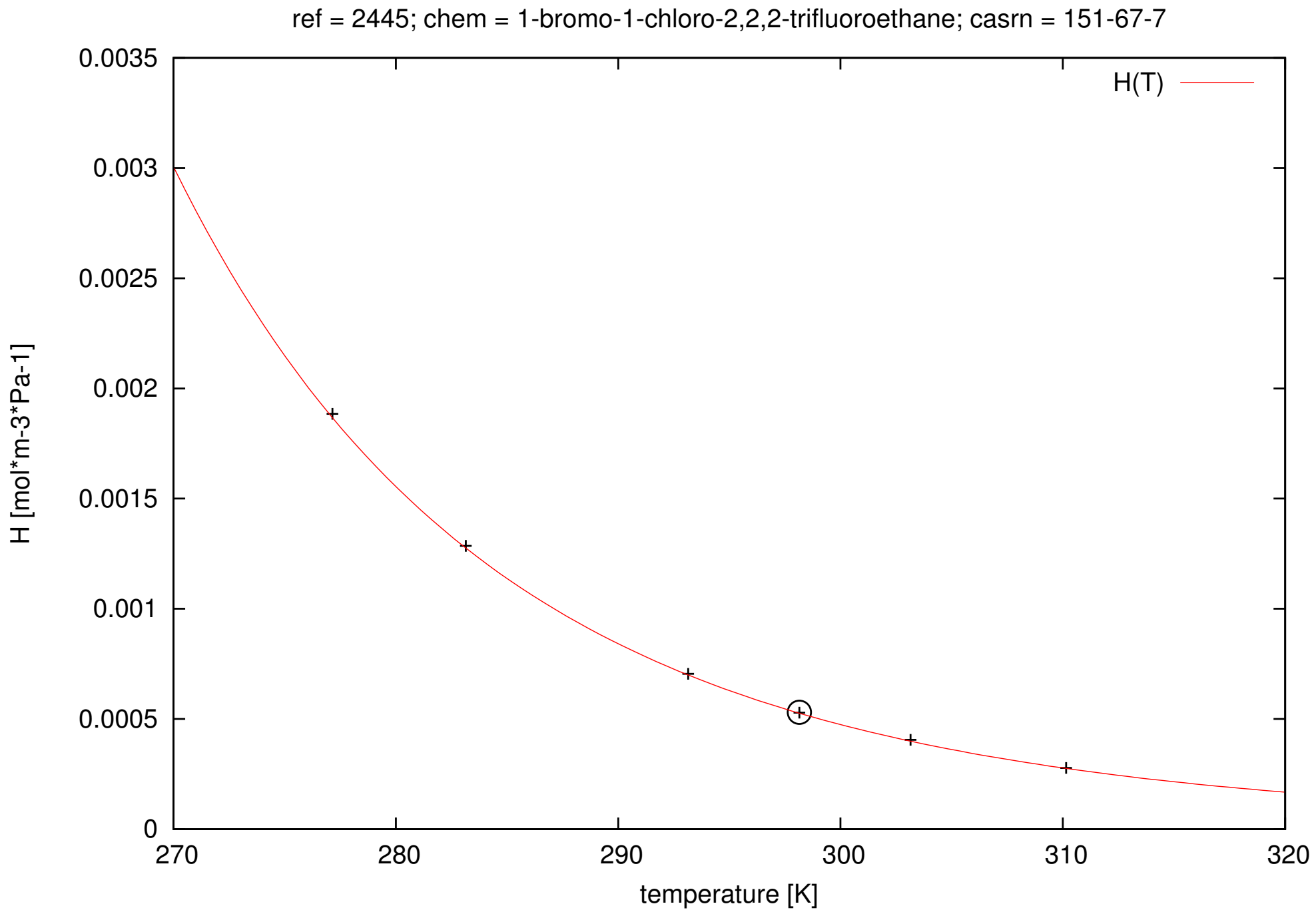

ref = 2431; chem = ethyl {tert}-butyl ether; casrn = 637-92-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
270
275
280
285
290
295
300

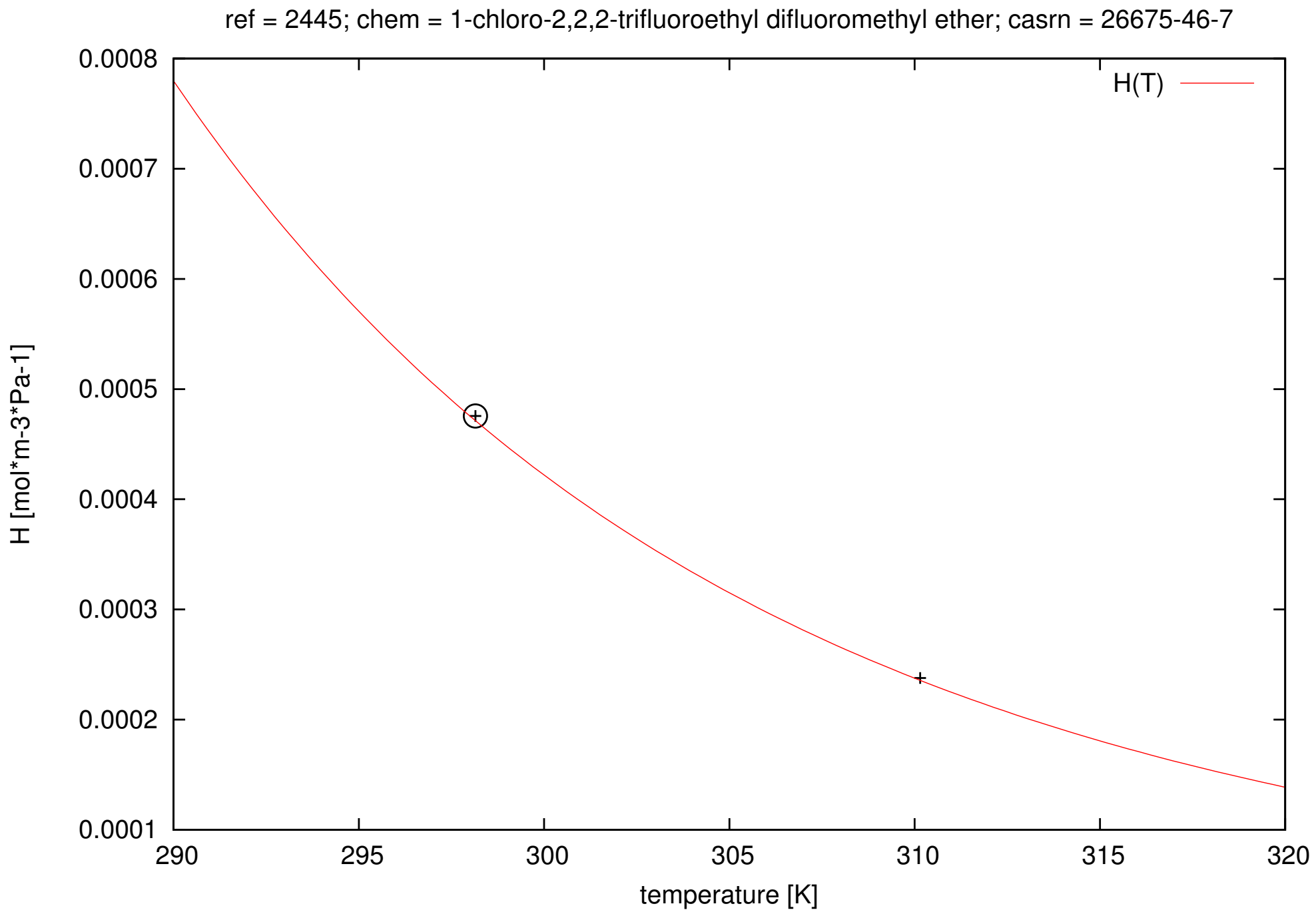

ref = 2431; chem = 2-methyl-2-propanol; casrn = 75-65-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0
1
2
3
4
5
6
7
8
270
275
280
285
290
295
300

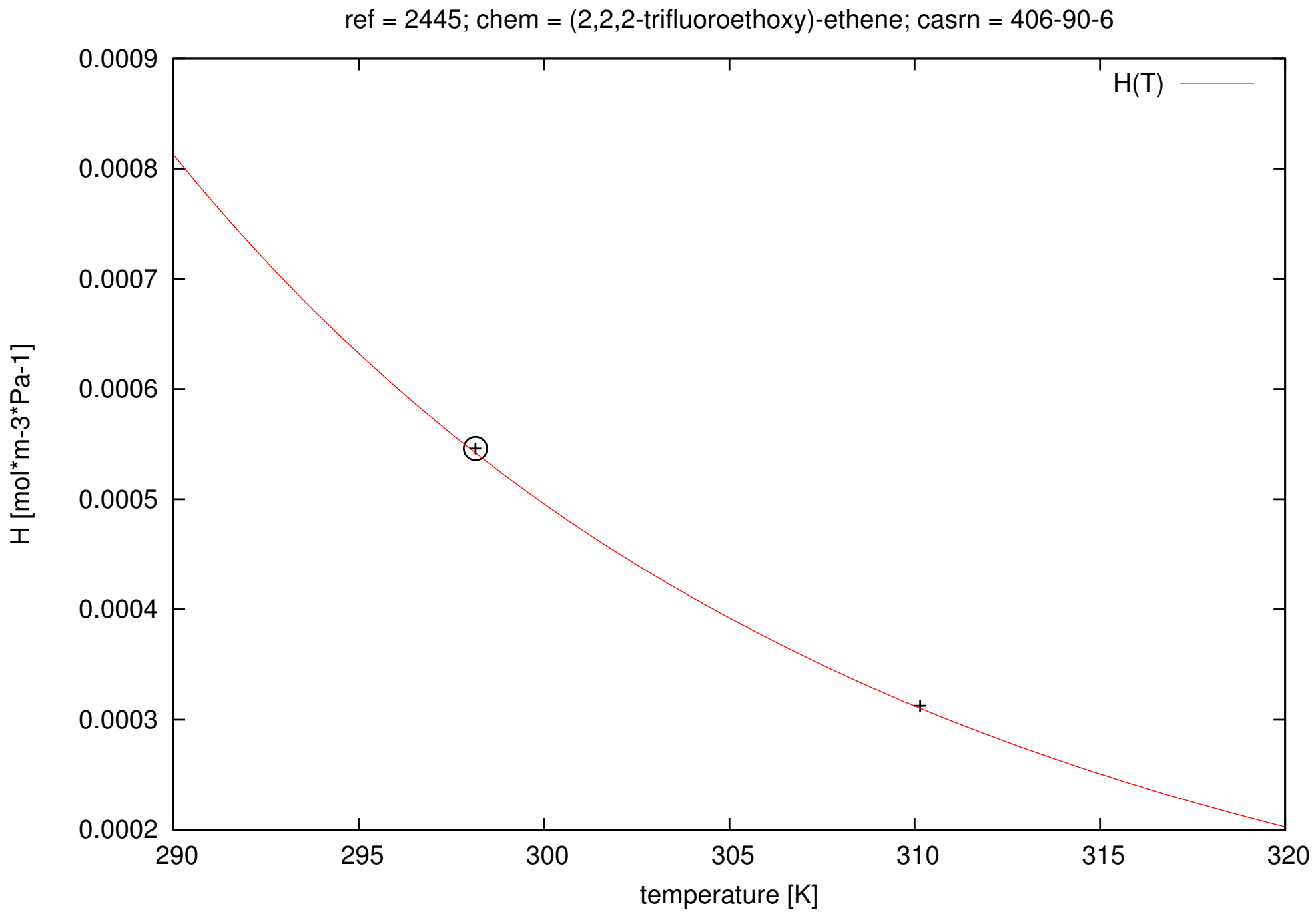

ref = 2431; chem = 2-methoxy-2-methylbutane; casrn = 994-05-8
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
270
275
280
285
290
295
300

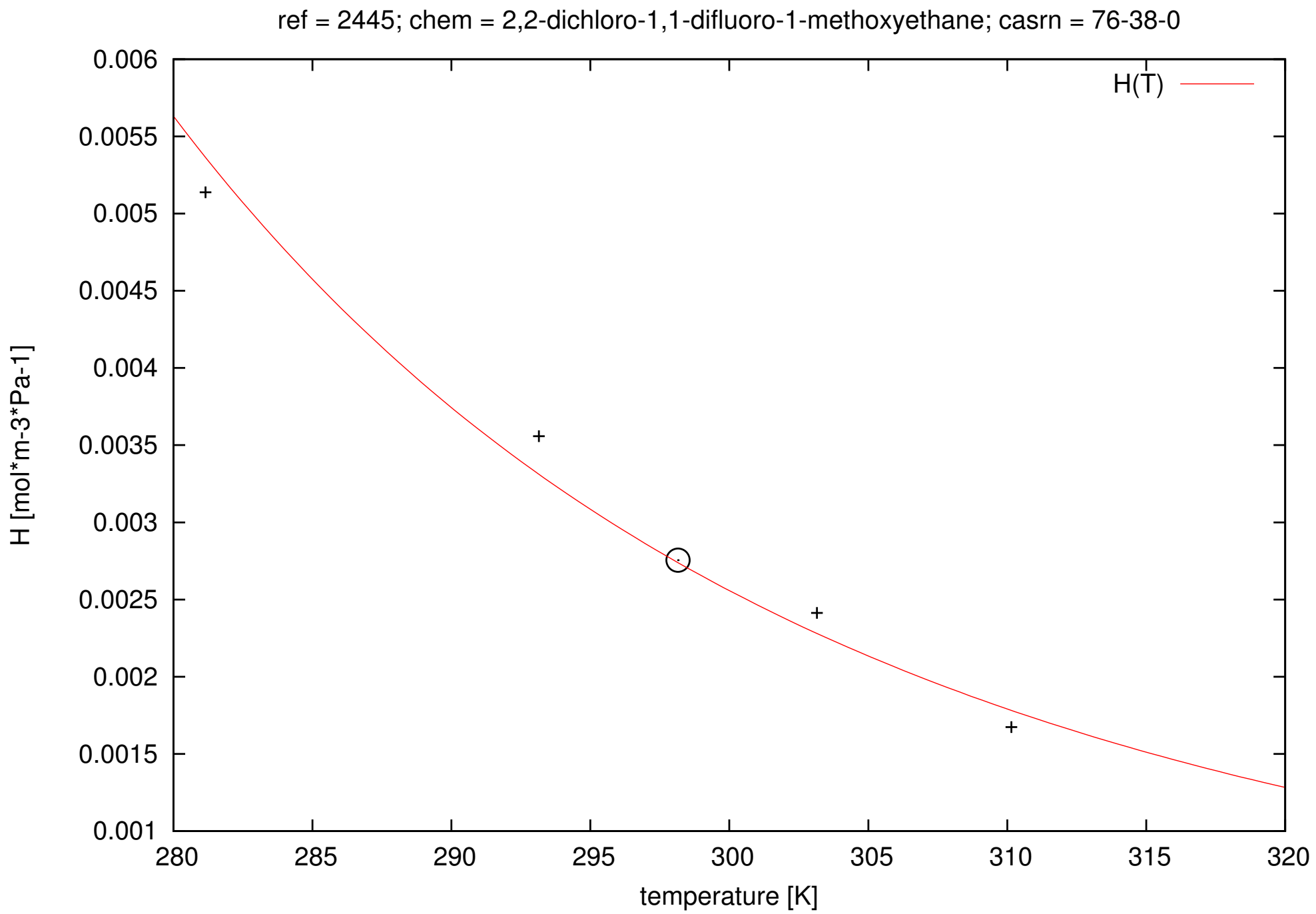

ref = 2434; chem = nitrogen; casrn = 7727-37-9
H(T)
H [mol*m-3*Pa-1]
temperature [K]
1.1e-05
1e-05
9e-06
8e-06
7e-06
6e-06
5e-06
4e-06
270
280
290
300
310
320
330

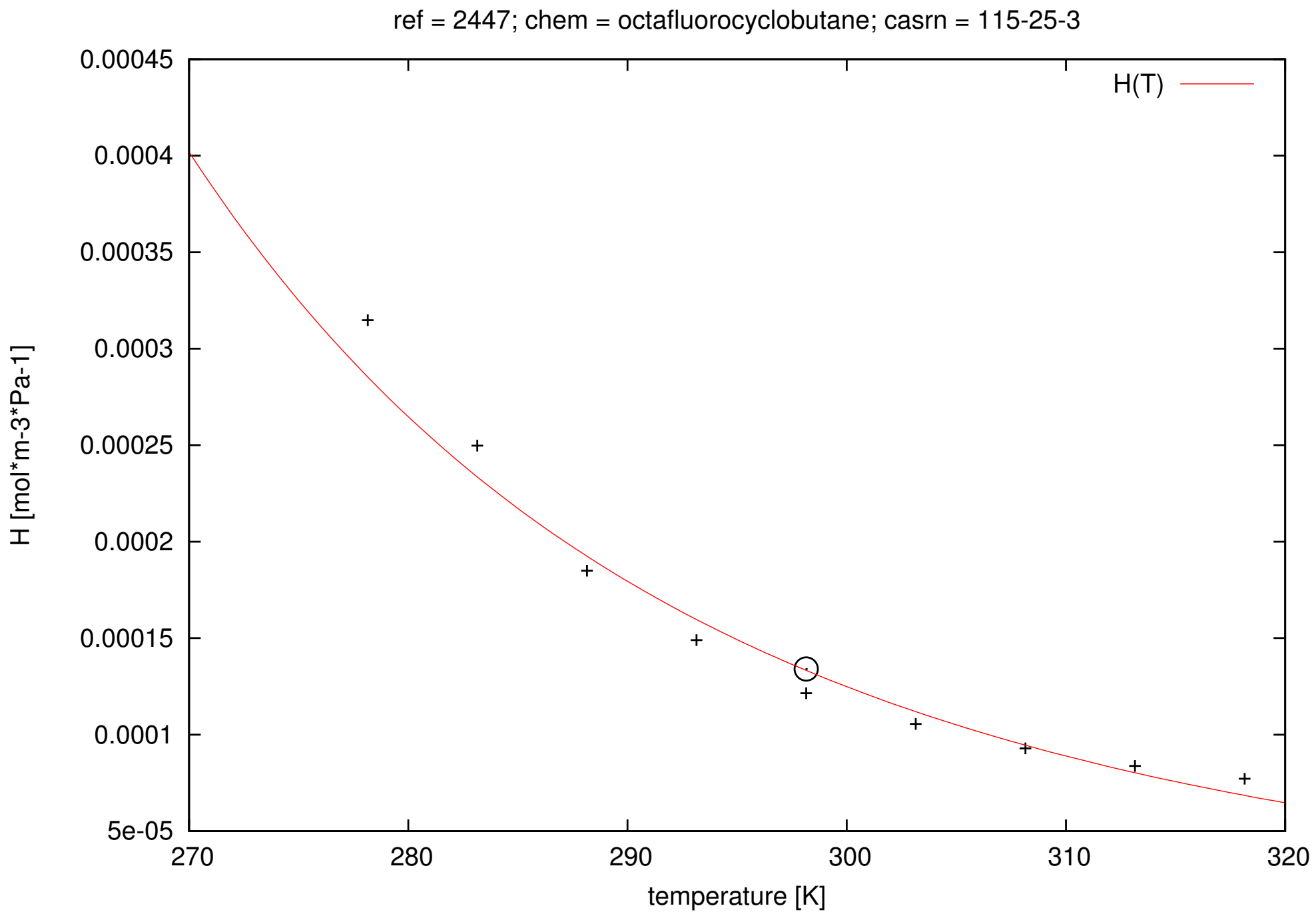

ref = 2435; chem = argon; casrn = 7440-37-1
H(T)
H [mol*m-3*Pa-1]
temperature [K]
2.6e-05
2.4e-05
2.2e-05
2e-05
1.8e-05
1.6e-05
1.4e-05
1.2e-05
1e-05
8e-06
270
280
290
300
310
320

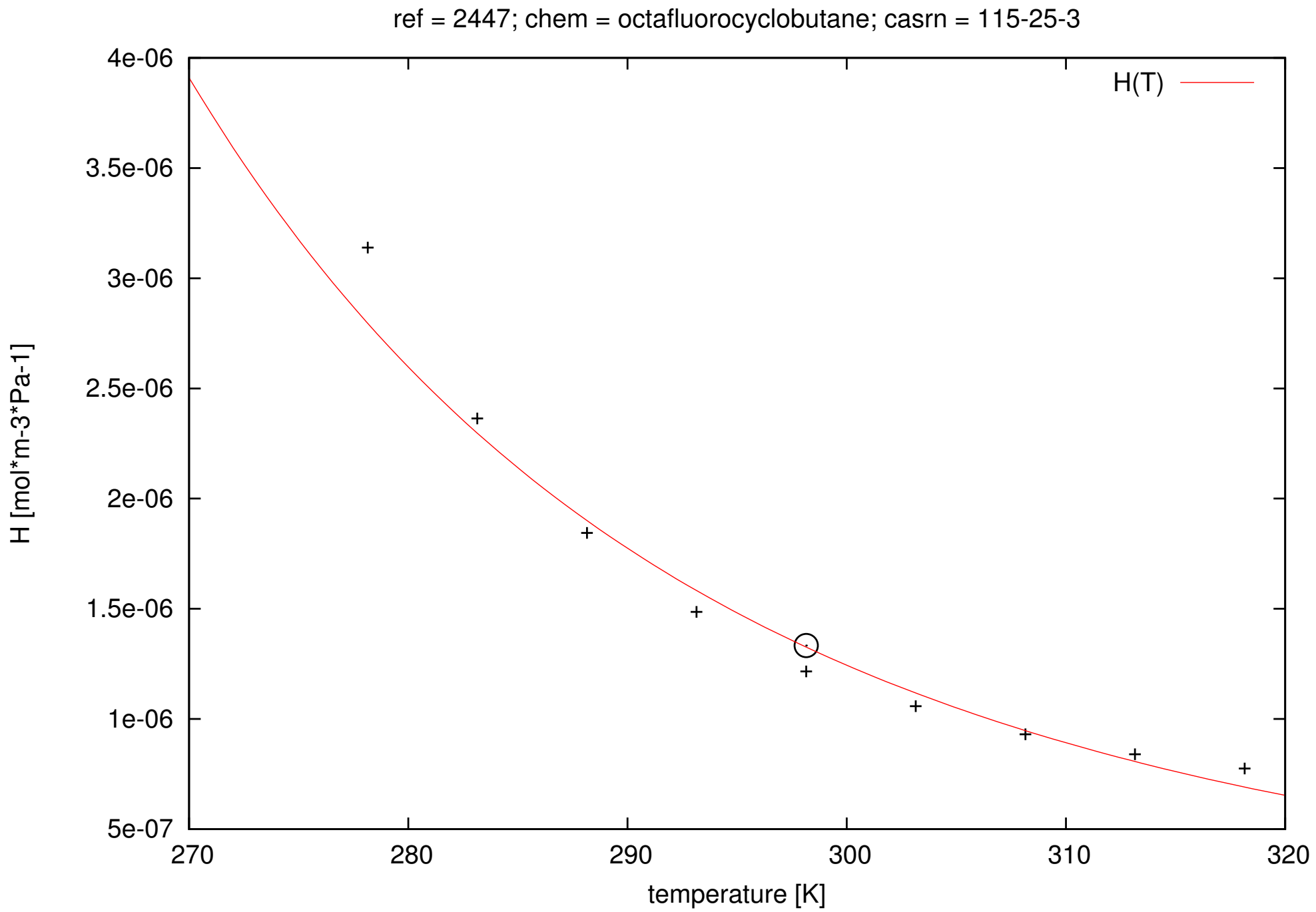

ref = 2445; chem = 1-bromo-1-chloro-2,2,2-trifluoroethane; casrn = 151-67-7
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
270
280
290
300
310
320

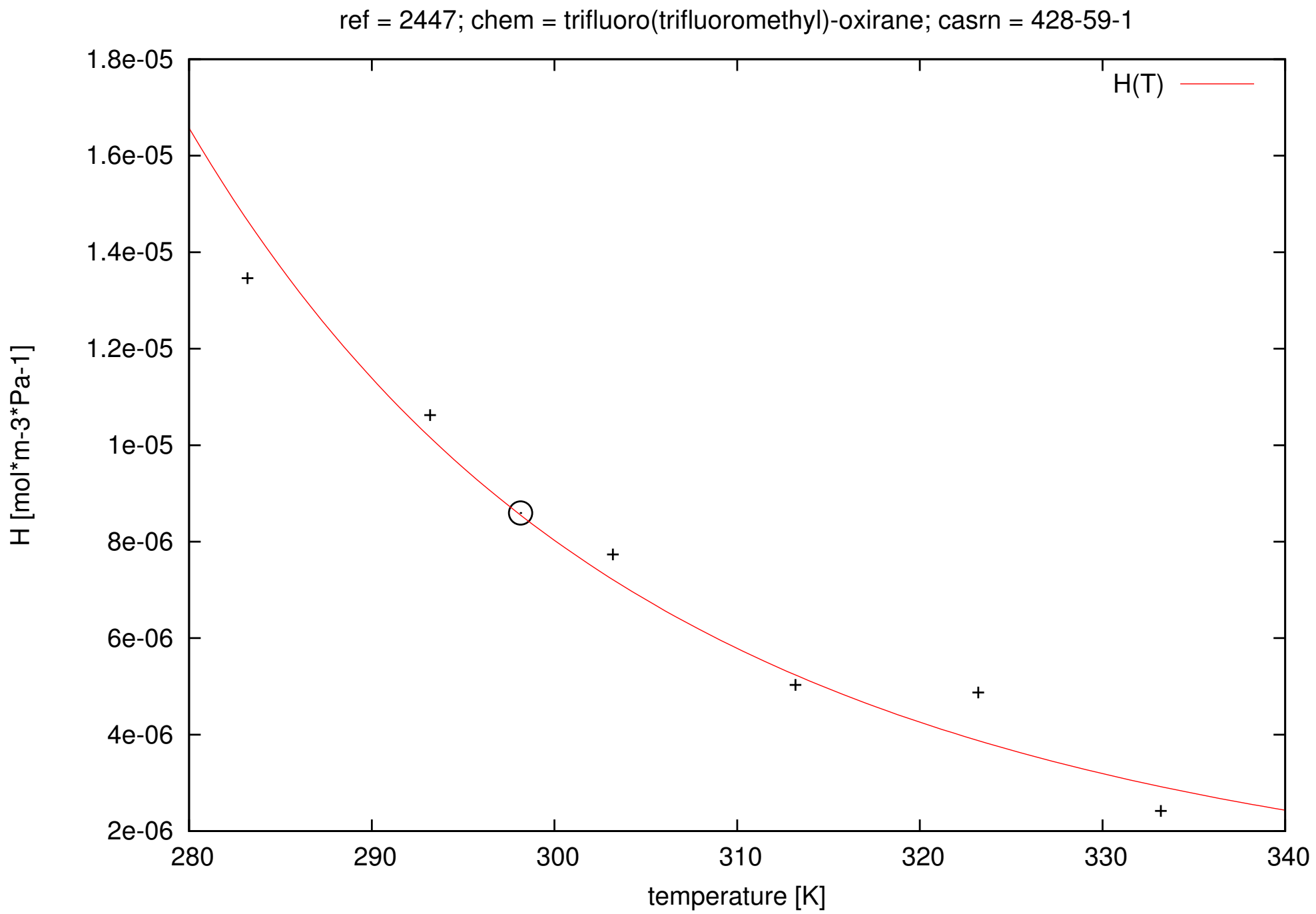

ref = 2445; chem = 1-chloro-2,2,2-trifluoroethyl difluoromethyl ether; casrn = 26675-46-7
H(T)
H [mol*m-3*Pa-1]
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
290
295
300
305
310
315
320
temperature [K]

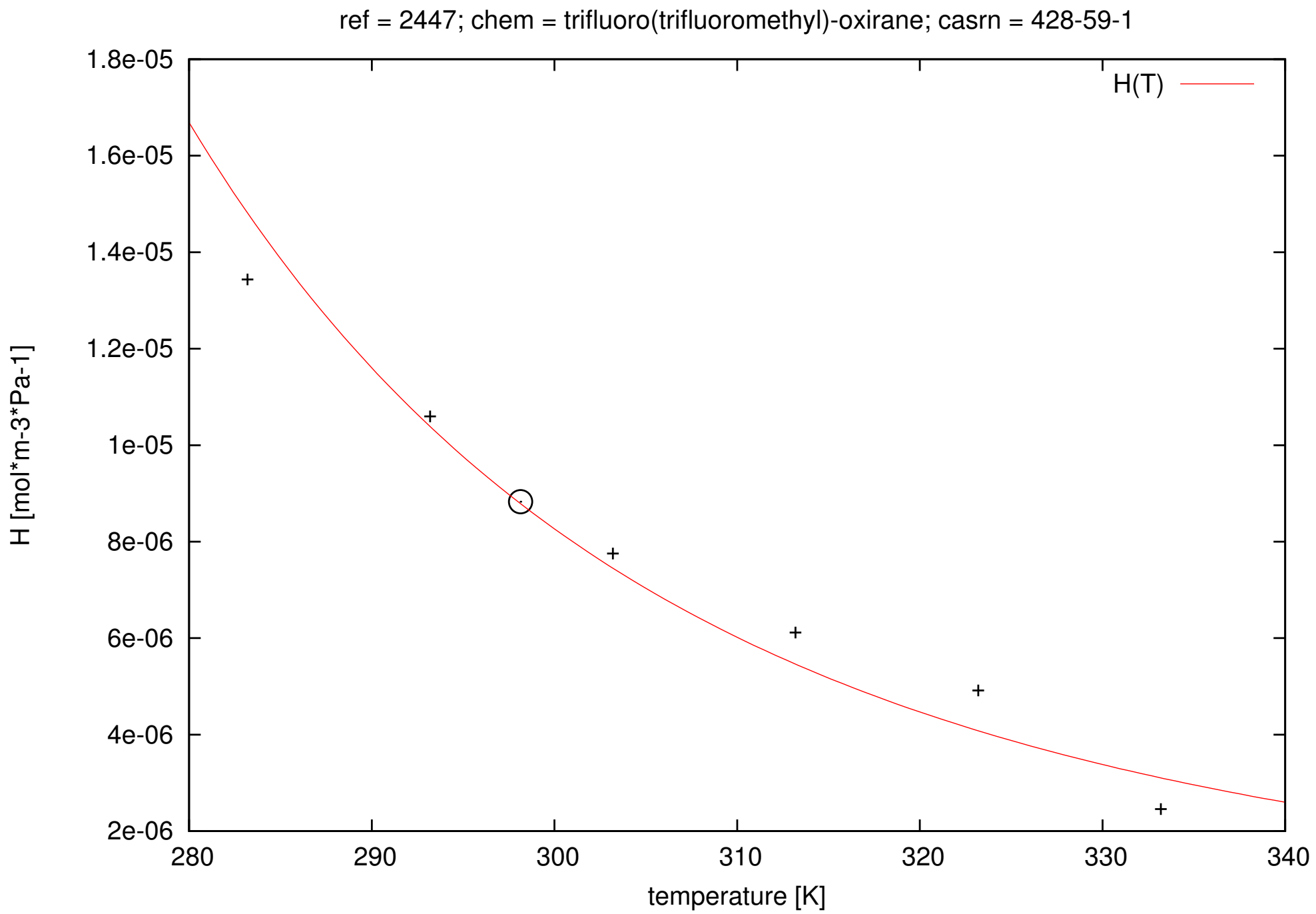

ref = 2445; chem = (2,2,2-trifluoroethoxy)-ethene; casrn = 406-90-6
H(T)
H [mol*m-3*Pa-1]
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
290
295
300
305
310
315
320
temperature [K]

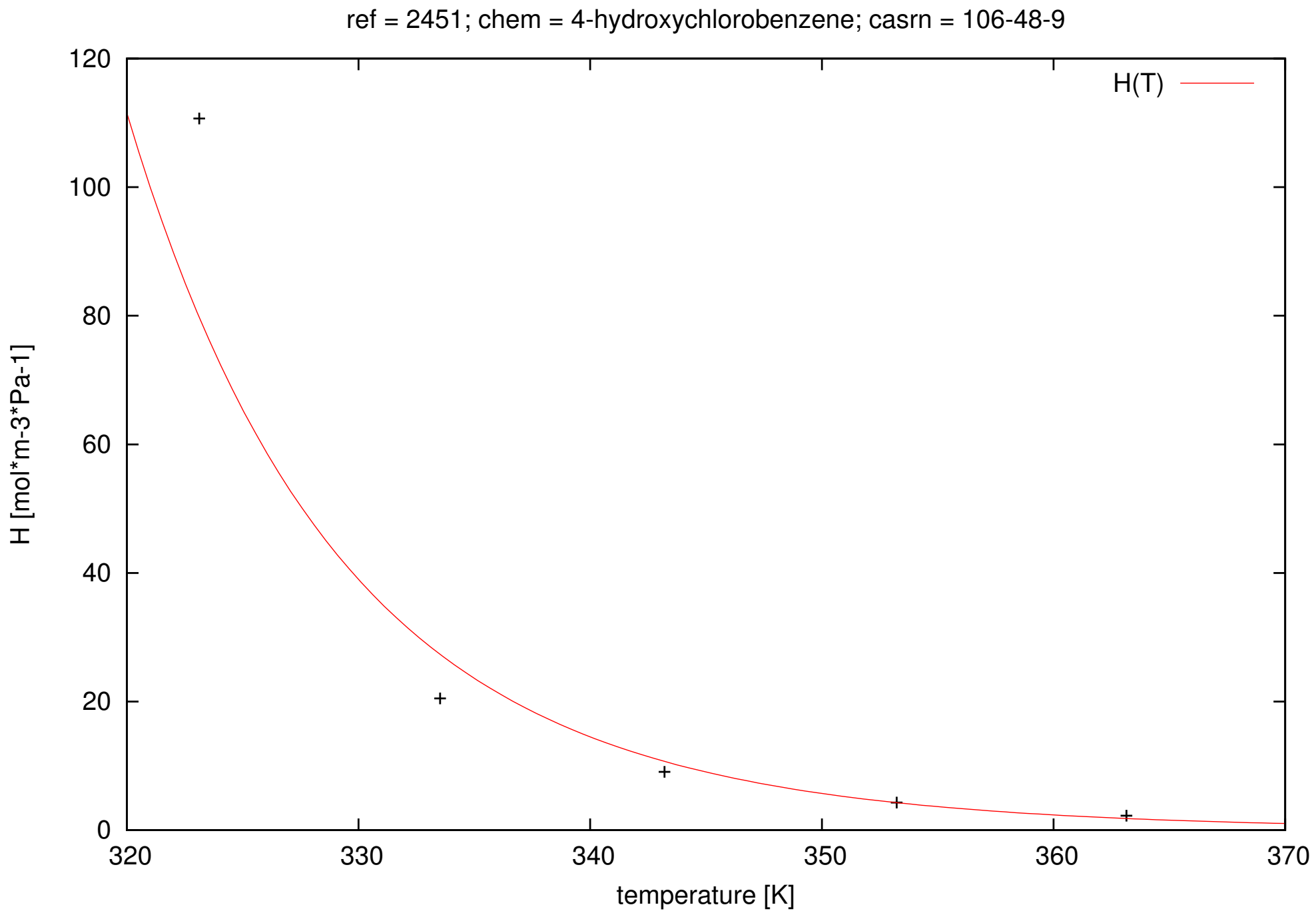

ref = 2445; chem = 2,2-dichloro-1,1-difluoro-1-methoxyethane; casrn = 76-38-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
280
285
290
295
300
305
310
315
320

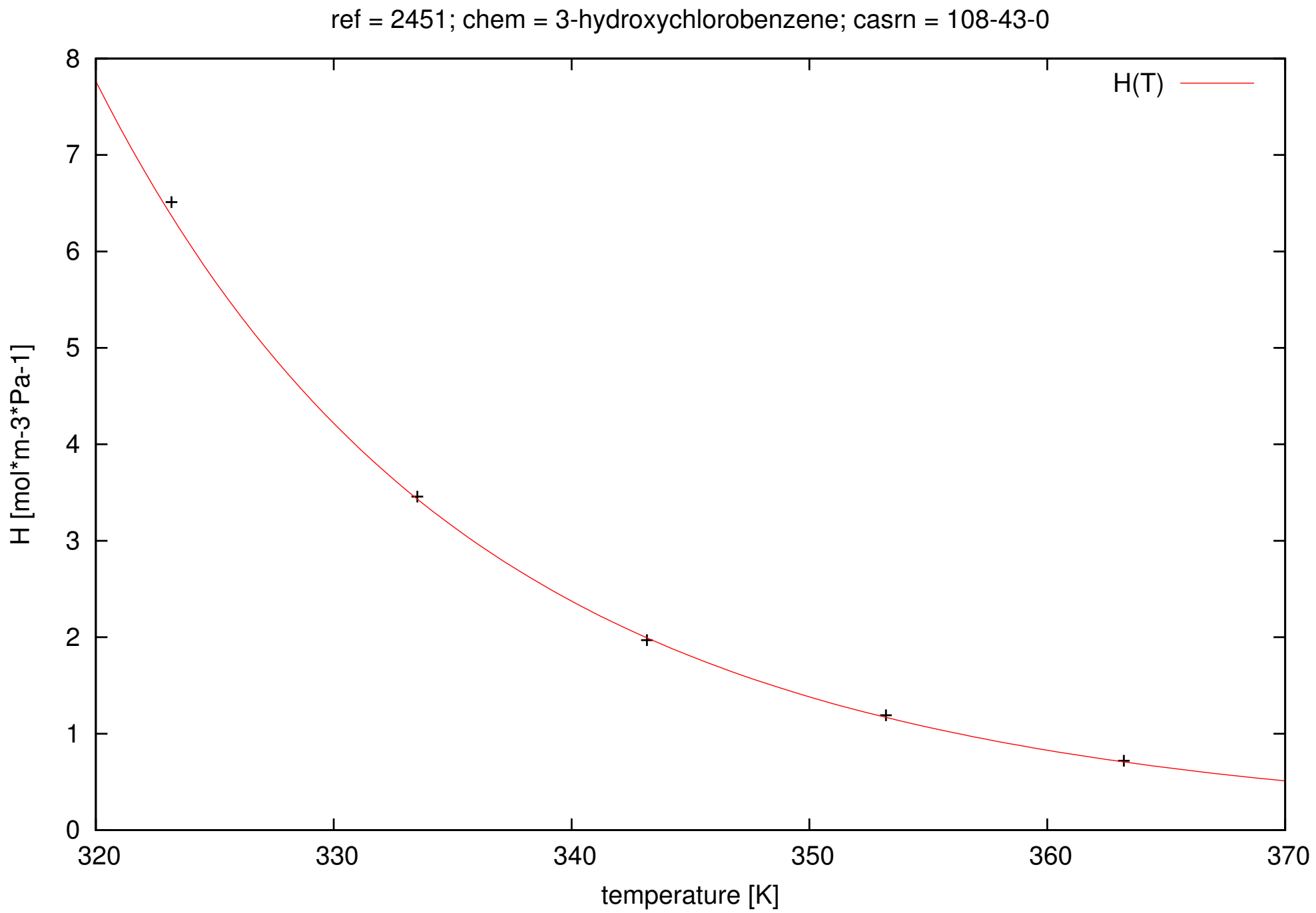

ref = 2447; chem = octafluorocyclobutane; casrn = 115-25-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.00045
0.0004
0.00035
0.0003
0.00025
0.0002
0.00015
0.0001
5e-05
270
280
290
300
310
320

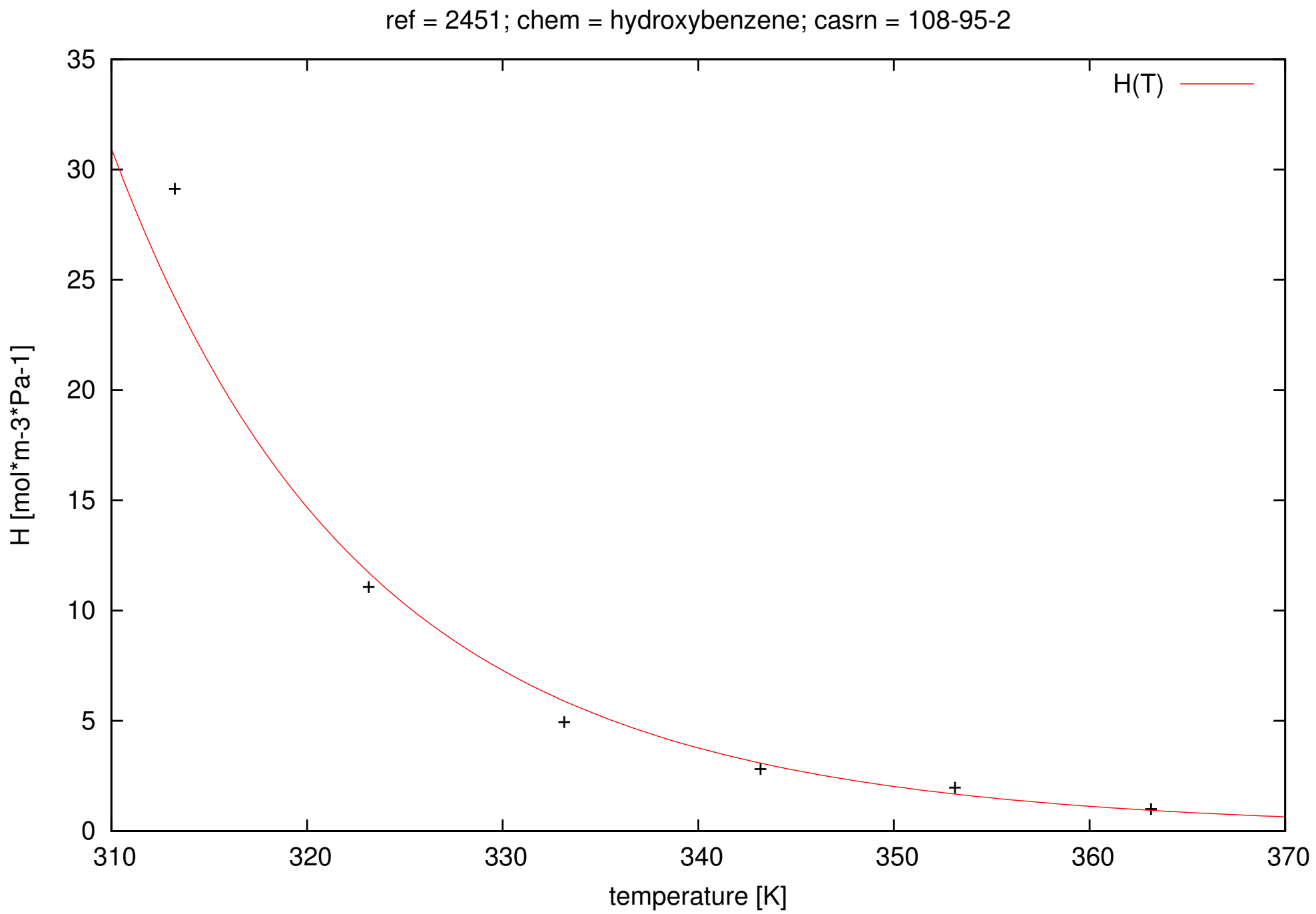

ref = 2447; chem = octafluorocyclobutane; casrn = 115-25-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
4e-06
3.5e-06
3e-06
2.5e-06
2e-06
1.5e-06
1e-06
5e-07
270
280
290
300
310
320

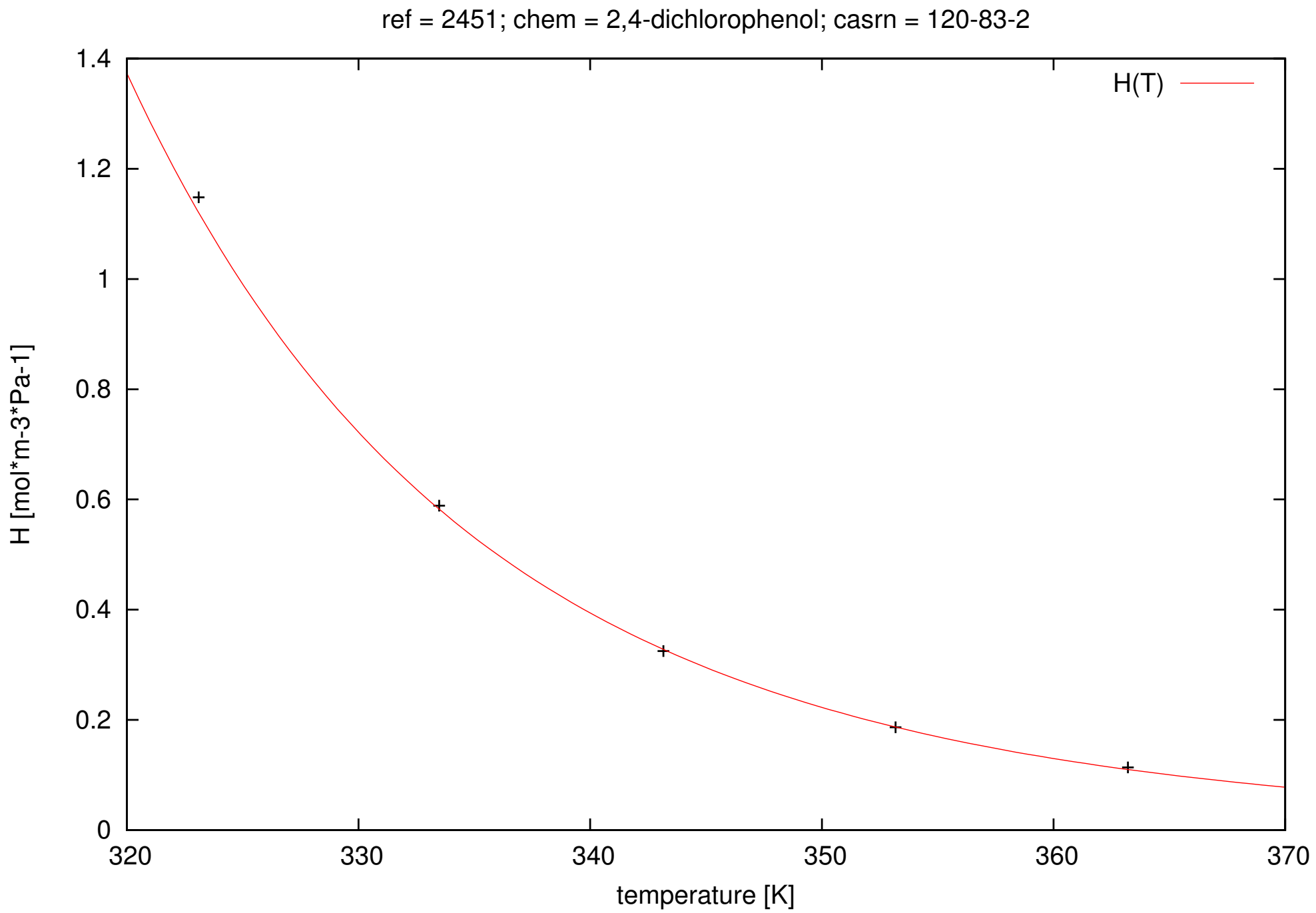

ref = 2447; chem = trifluoro(trifluoromethyl)-oxirane; casrn = 428-59-1
H(T)
H [mol*m-3*Pa-1]
temperature [K]
1.8e-05
1.6e-05
1.4e-05
1.2e-05
1e-05
8e-06
6e-06
4e-06
2e-06
280
290
300
310
320
330
340

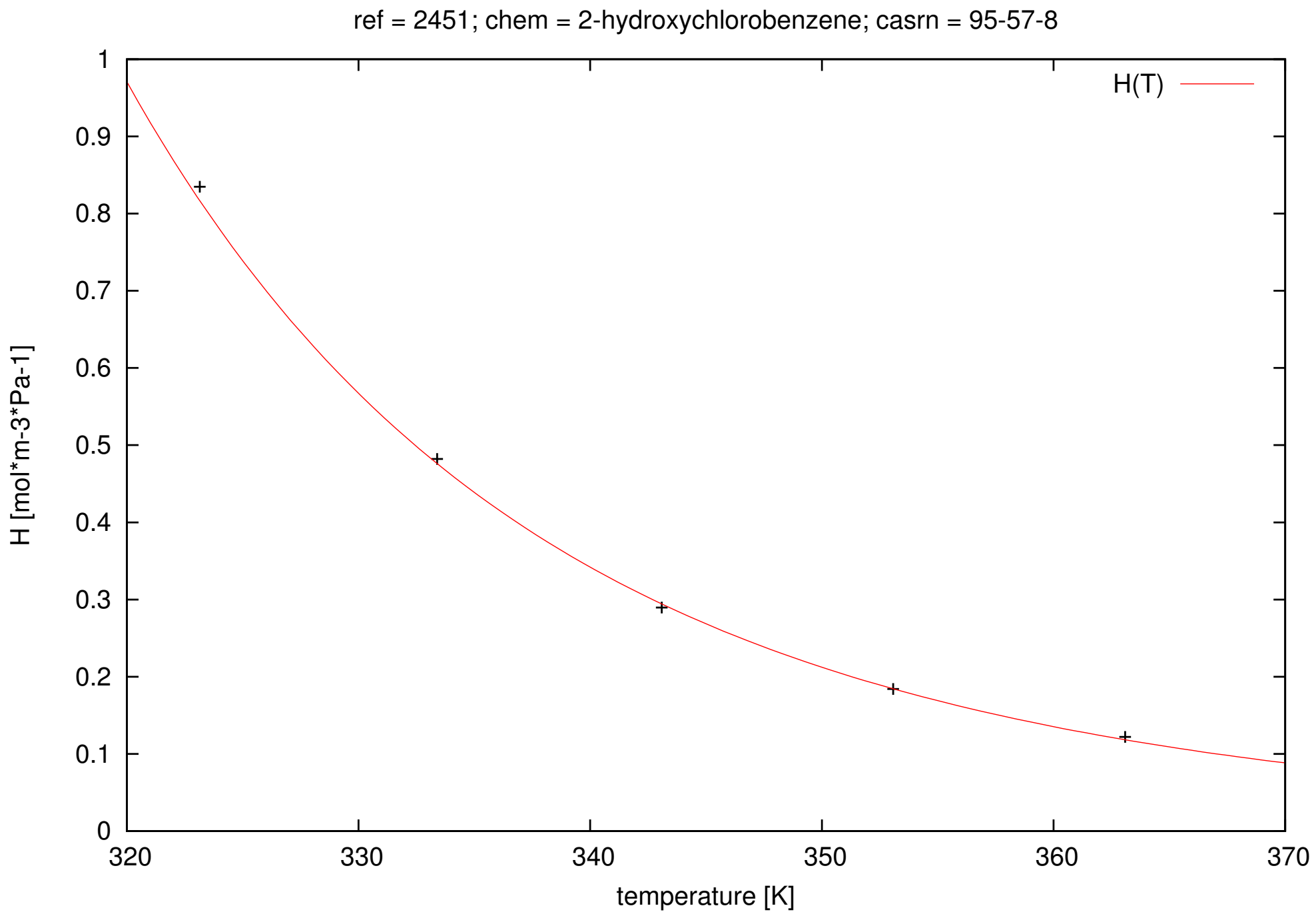

ref = 2447; chem = trifluoro(trifluoromethyl)-oxirane; casrn = 428-59-1
H(T)
H [mol*m-3*Pa-1]
temperature [K]
1.8e-05
1.6e-05
1.4e-05
1.2e-05
1e-05
8e-06
6e-06
4e-06
2e-06
280
290
300
310
320
330
340

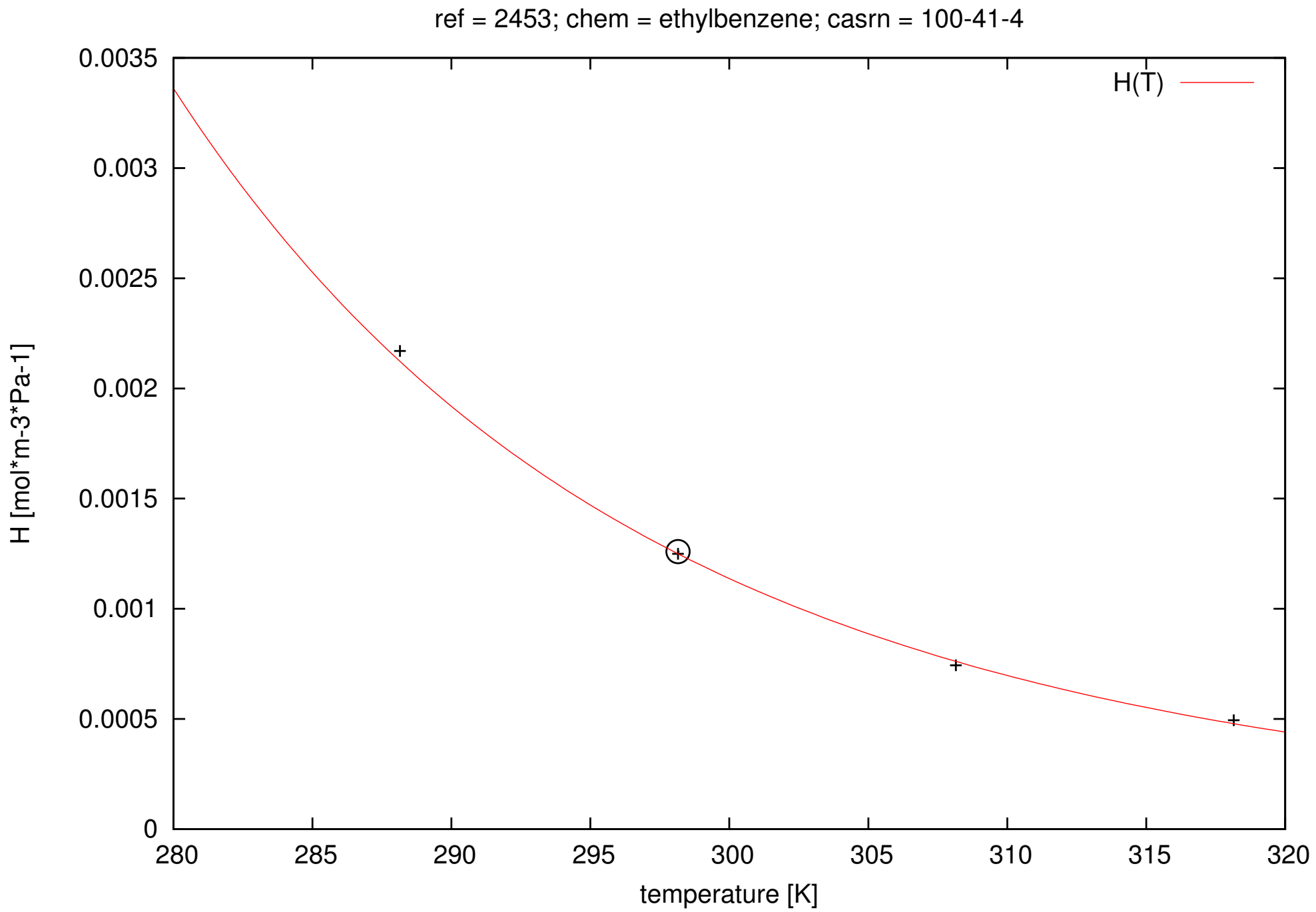

ref = 2451; chem = 4-hydroxychlorobenzene; casrn = 106-48-9
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0
20
40
60
80
100
120
320
330
340
350
360
370

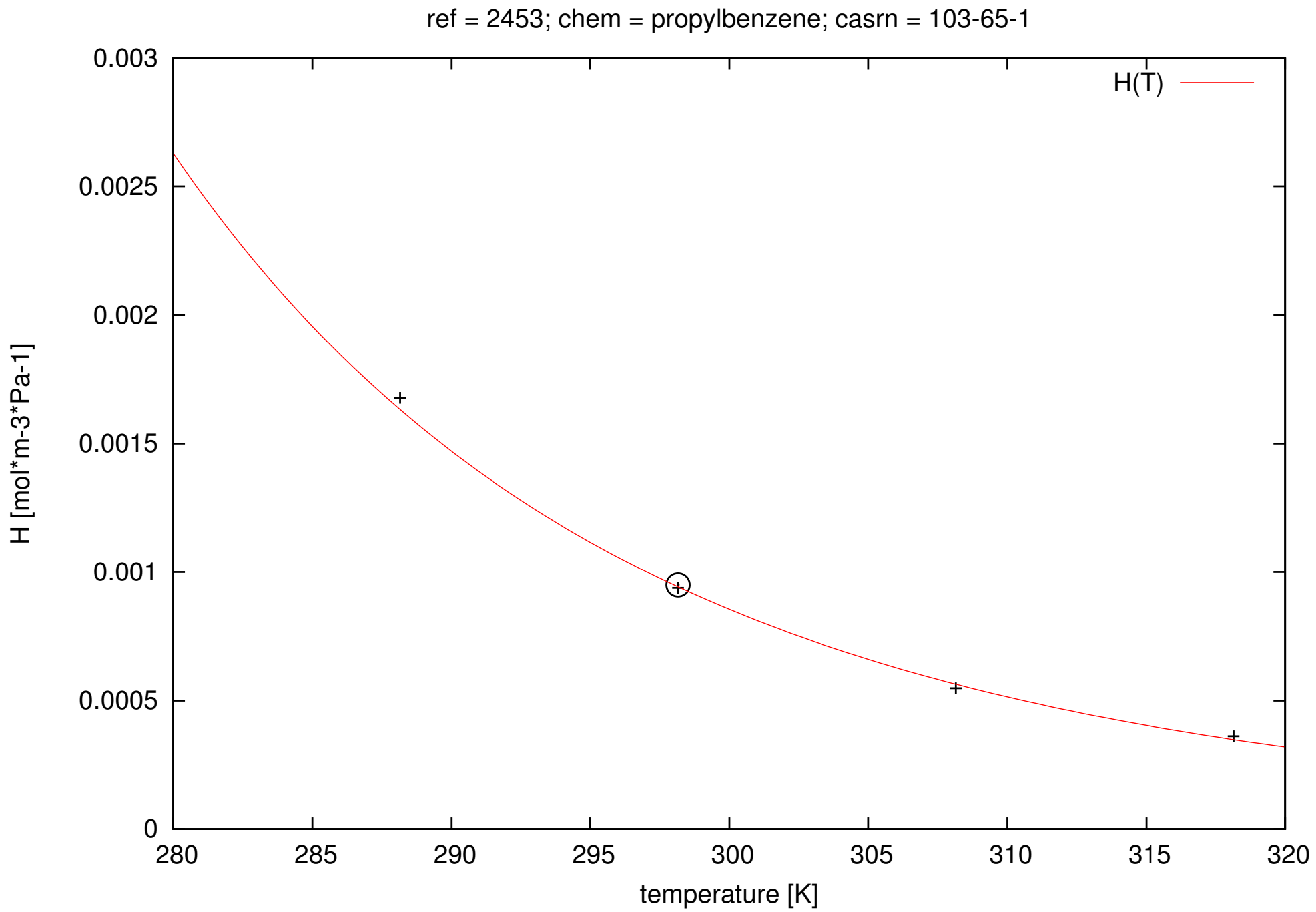

ref = 2451; chem = 3-hydroxychlorobenzene; casrn = 108-43-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0
1
2
3
4
5
6
7
8
320
330
340
350
360
370

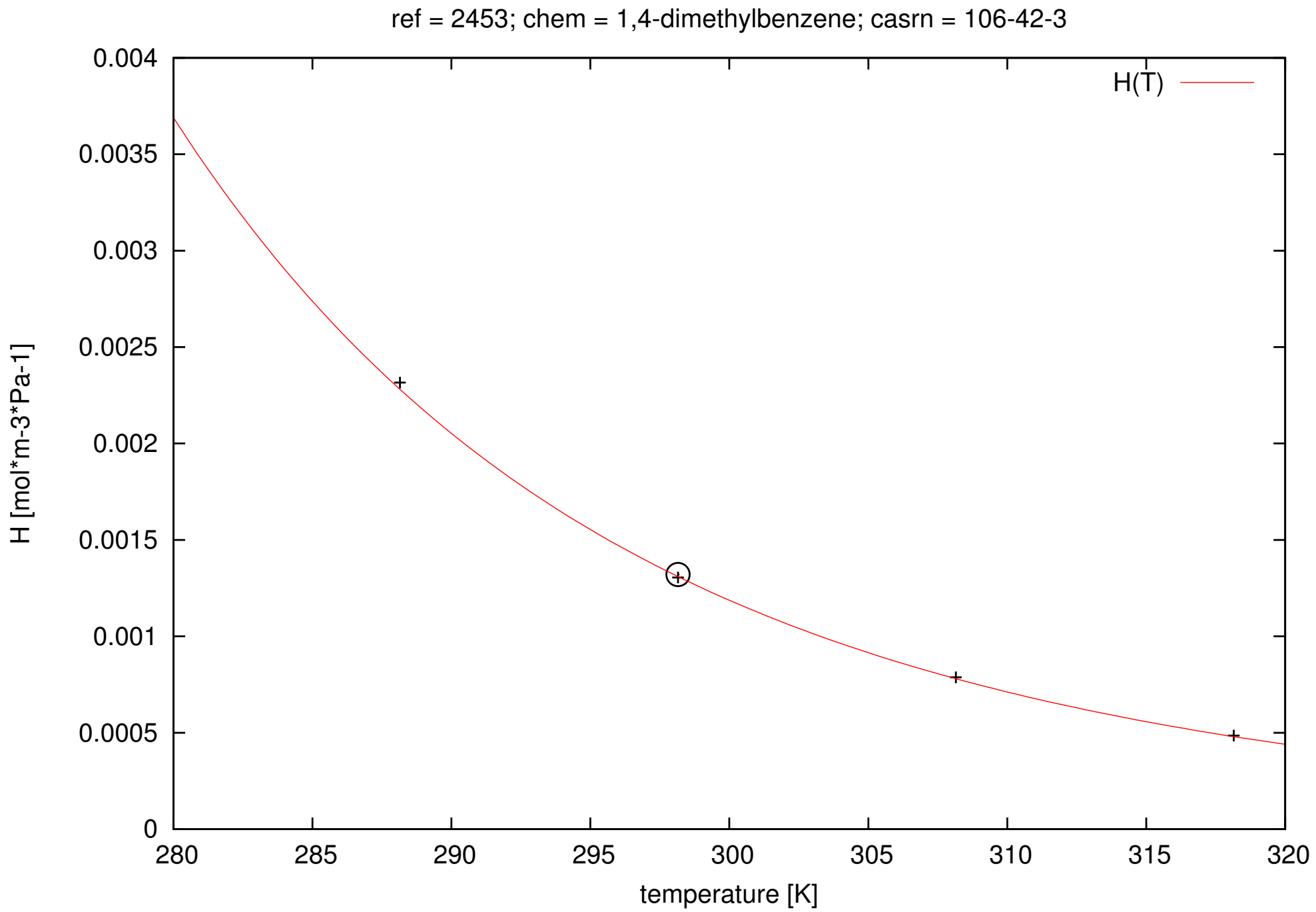

ref = 2451; chem = hydroxybenzene; casrn = 108-95-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
35
30
25
20
15
10
5
0
310
320
330
340
350
360
370

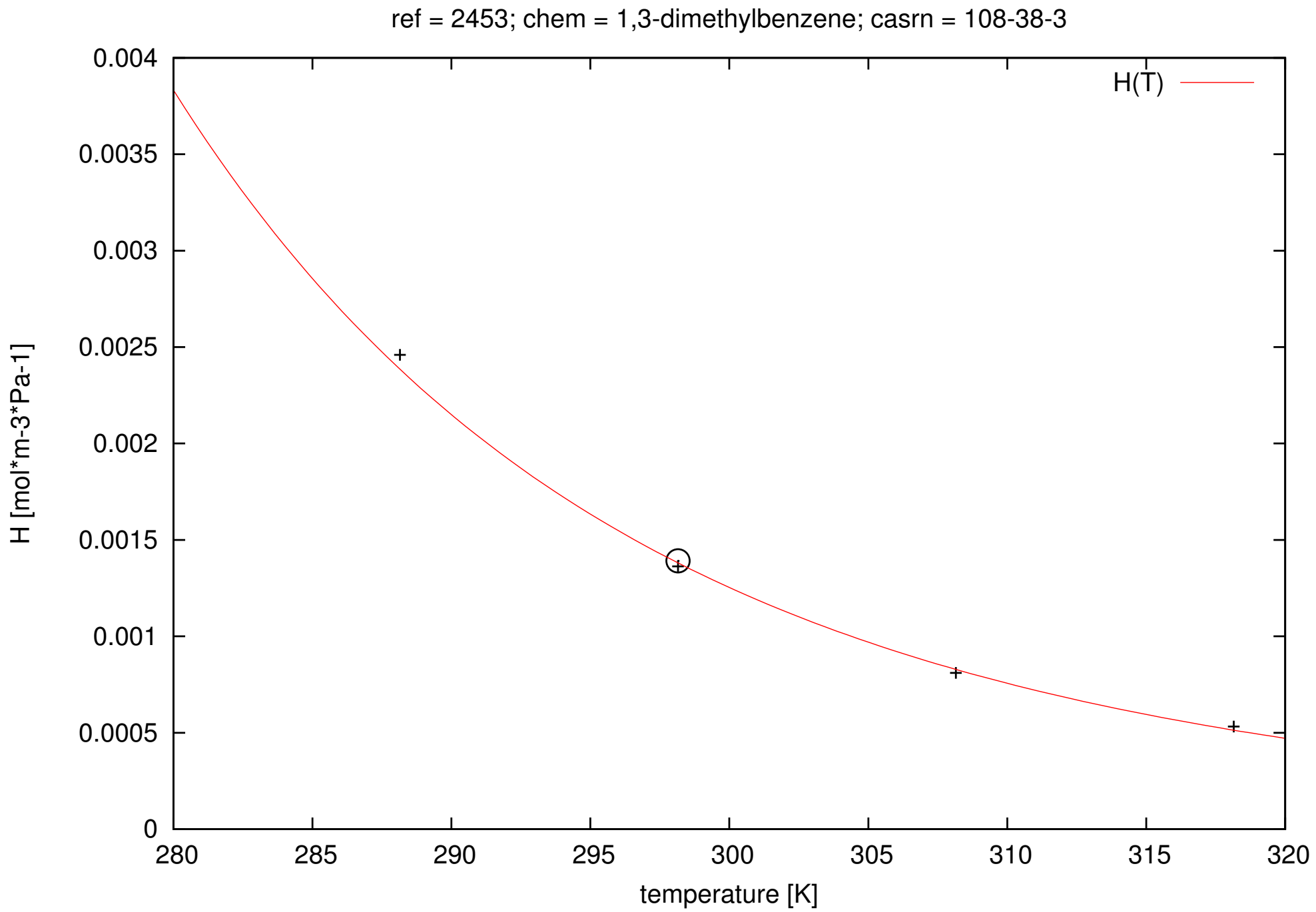

ref = 2451; chem = 2,4-dichlorophenol; casrn = 120-83-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
1.4
1.2
1
0.8
0.6
0.4
0.2
0
320
330
340
350
360
370

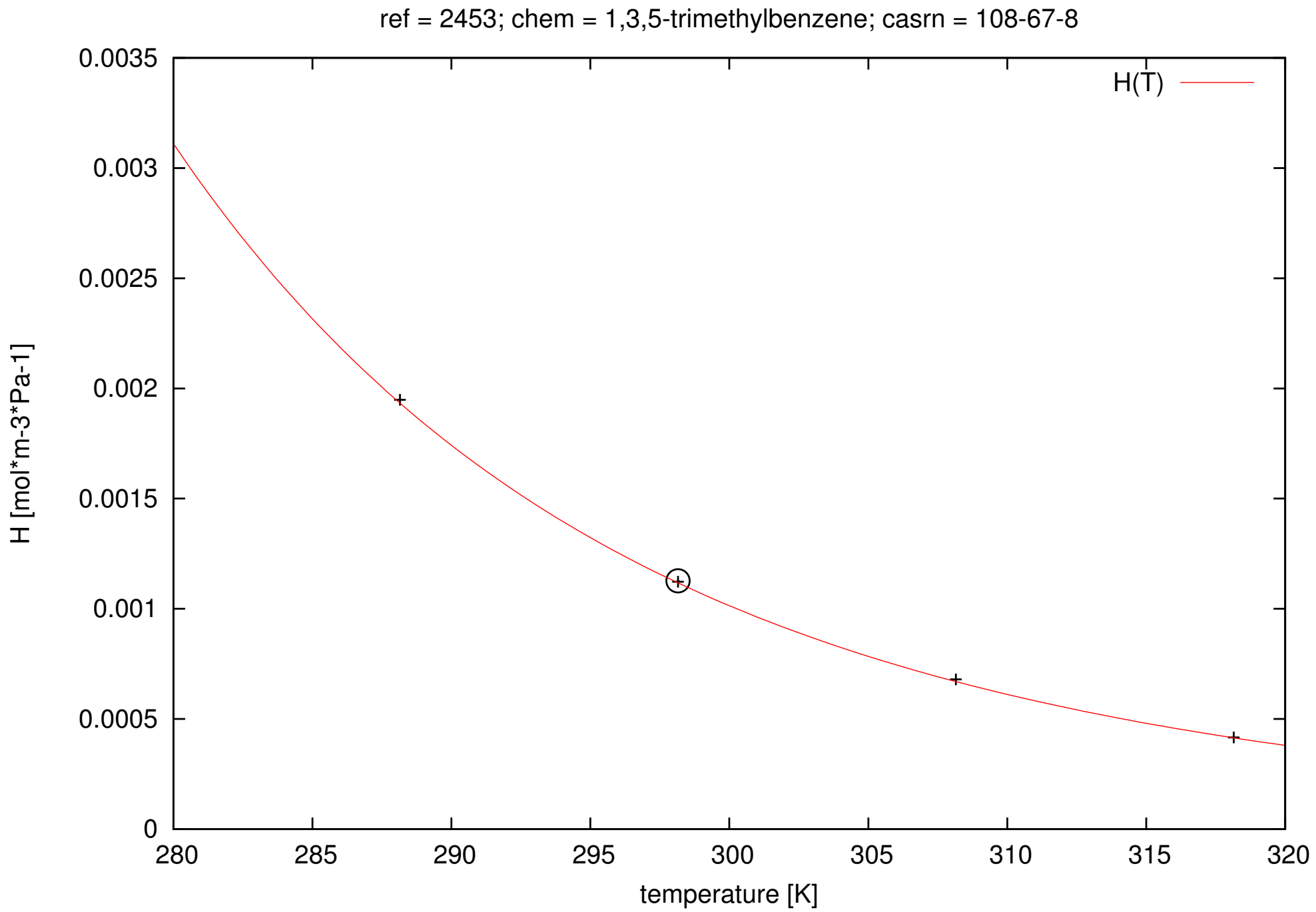

ref = 2451; chem = 2-hydroxychlorobenzene; casrn = 95-57-8
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
320
330
340
350
360
370

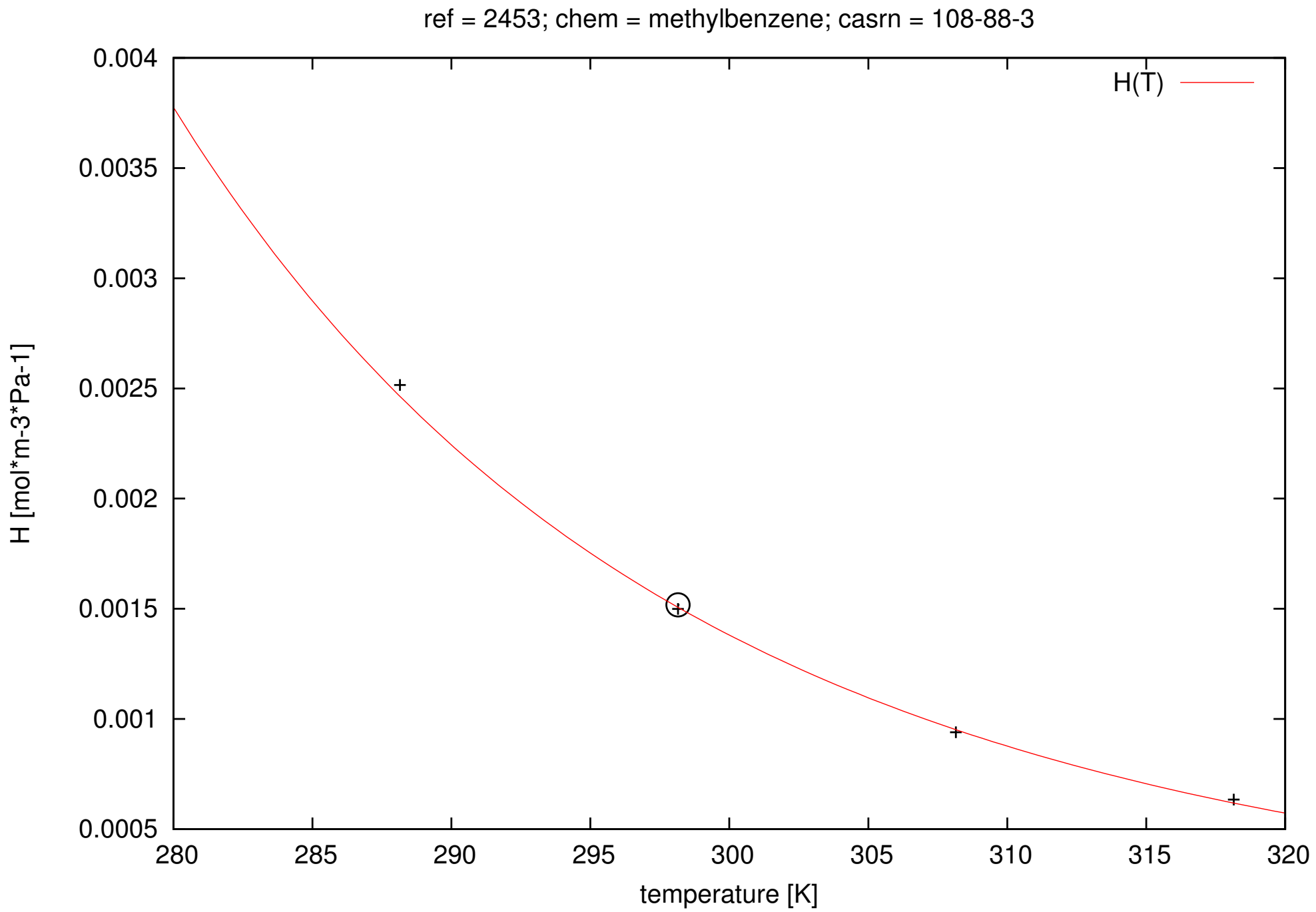

ref = 2453; chem = ethylbenzene; casrn = 100-41-4
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
280
285
290
295
300
305
310
315
320

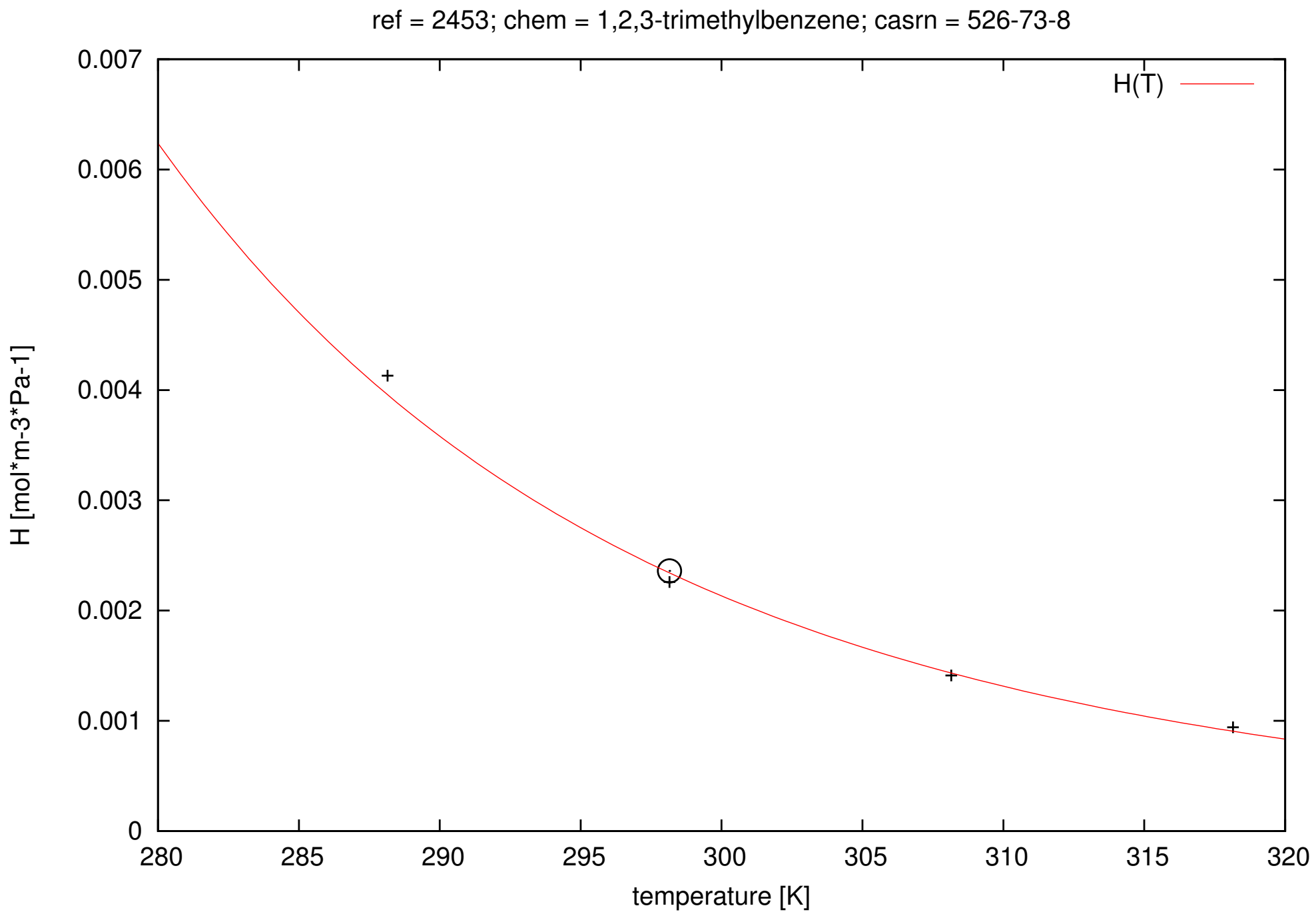

ref = 2453; chem = propylbenzene; casrn = 103-65-1
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
280
285
290
295
300
305
310
315
320

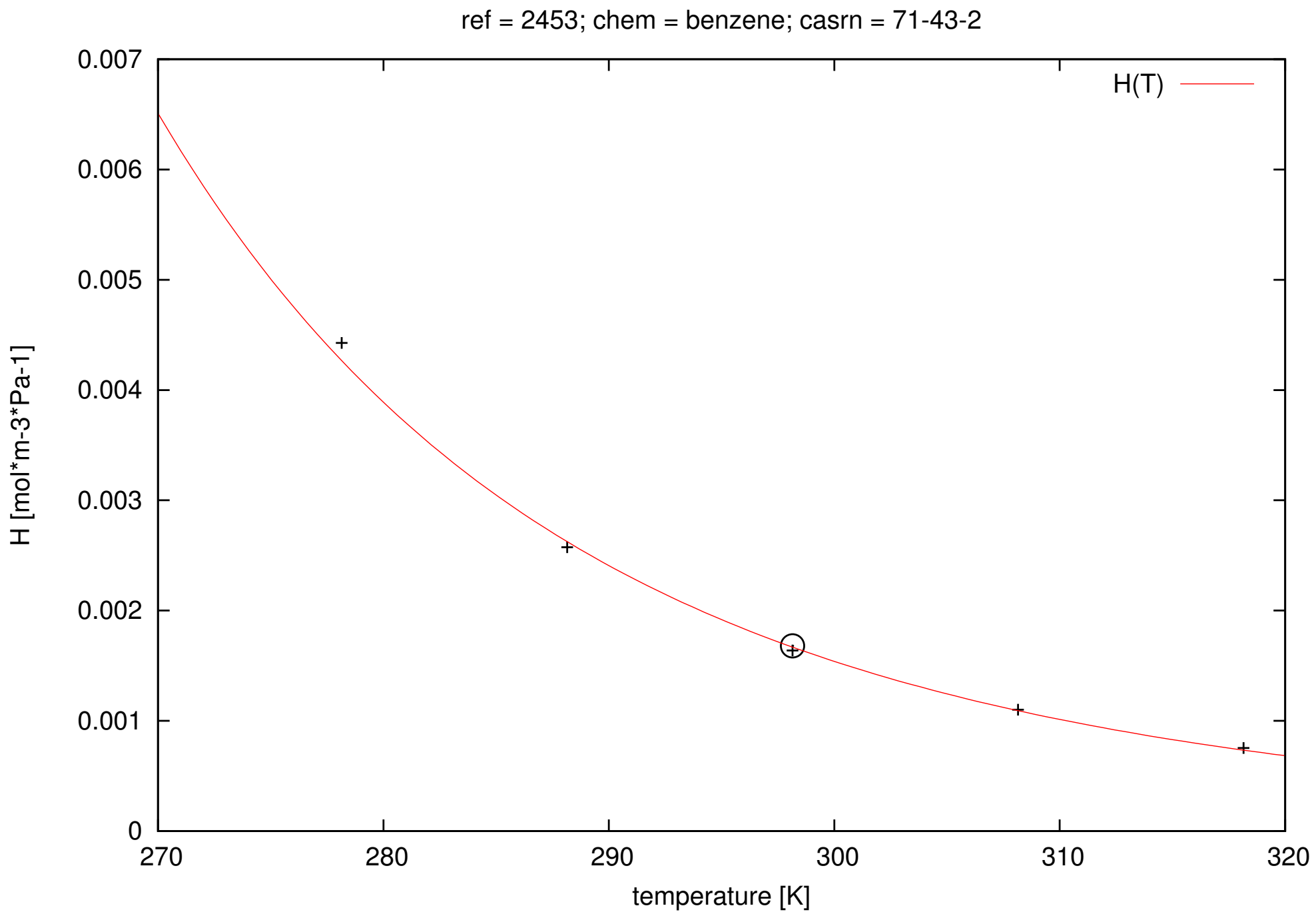

ref = 2453; chem = 1,4-dimethylbenzene; casrn = 106-42-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
280
285
290
295
300
305
310
315
320

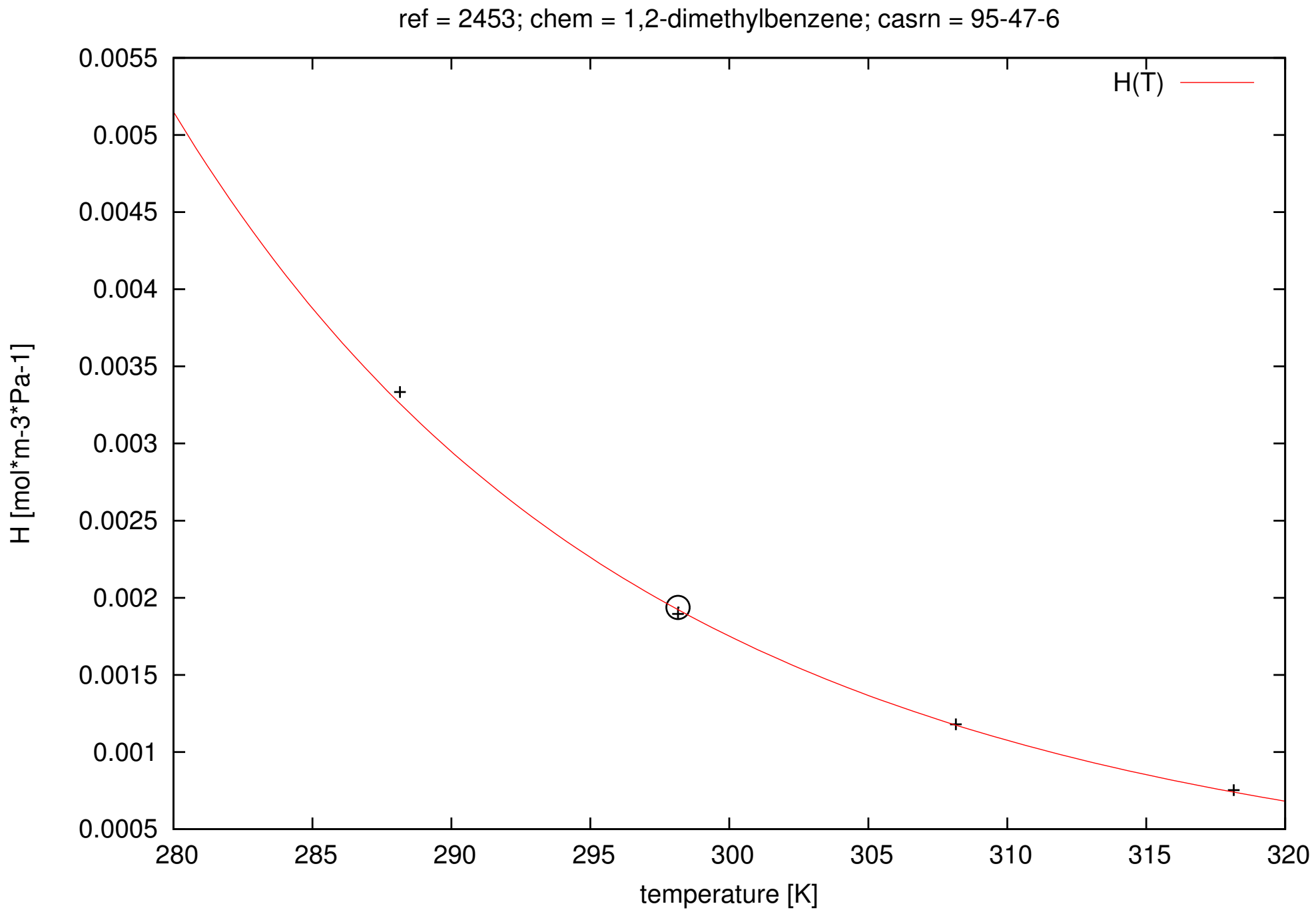

ref = 2453; chem = 1,3-dimethylbenzene; casrn = 108-38-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
280
285
290
295
300
305
310
315
320

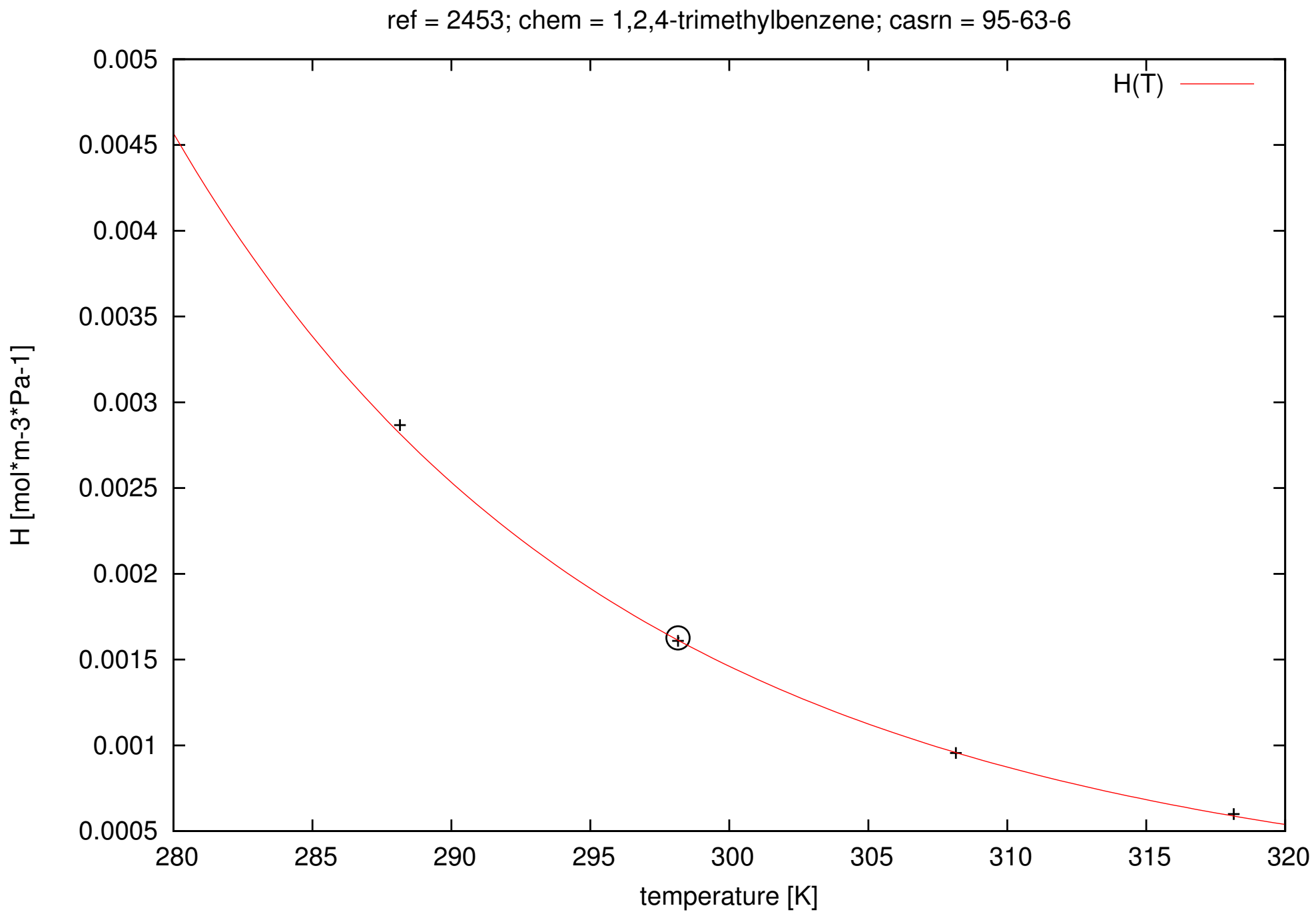

ref = 2453; chem = 1,3,5-trimethylbenzene; casrn = 108-67-8
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
280
285
290
295
300
305
310
315
320

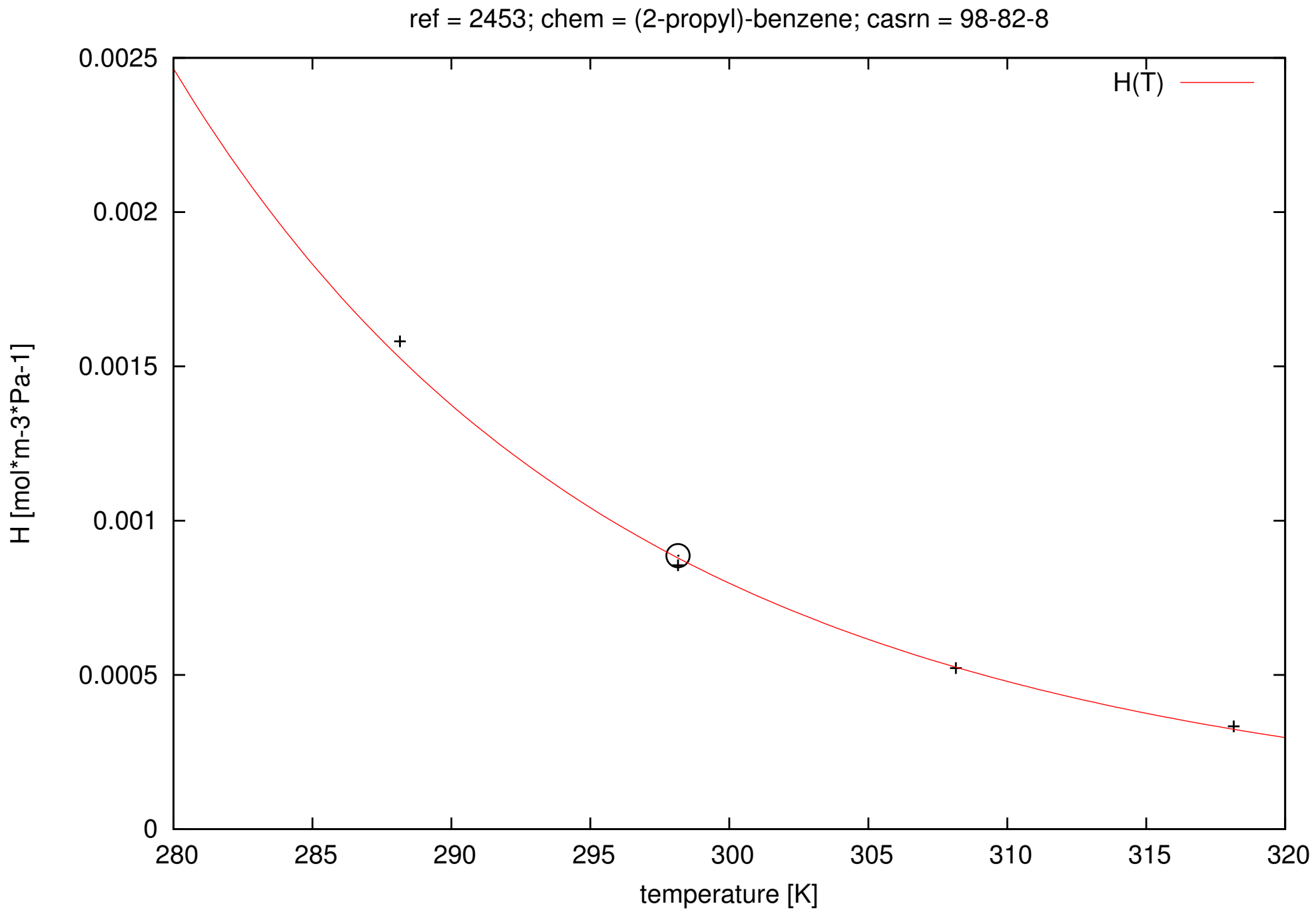

ref = 2453; chem = methylbenzene; casrn = 108-88-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
280
285
290
295
300
305
310
315
320

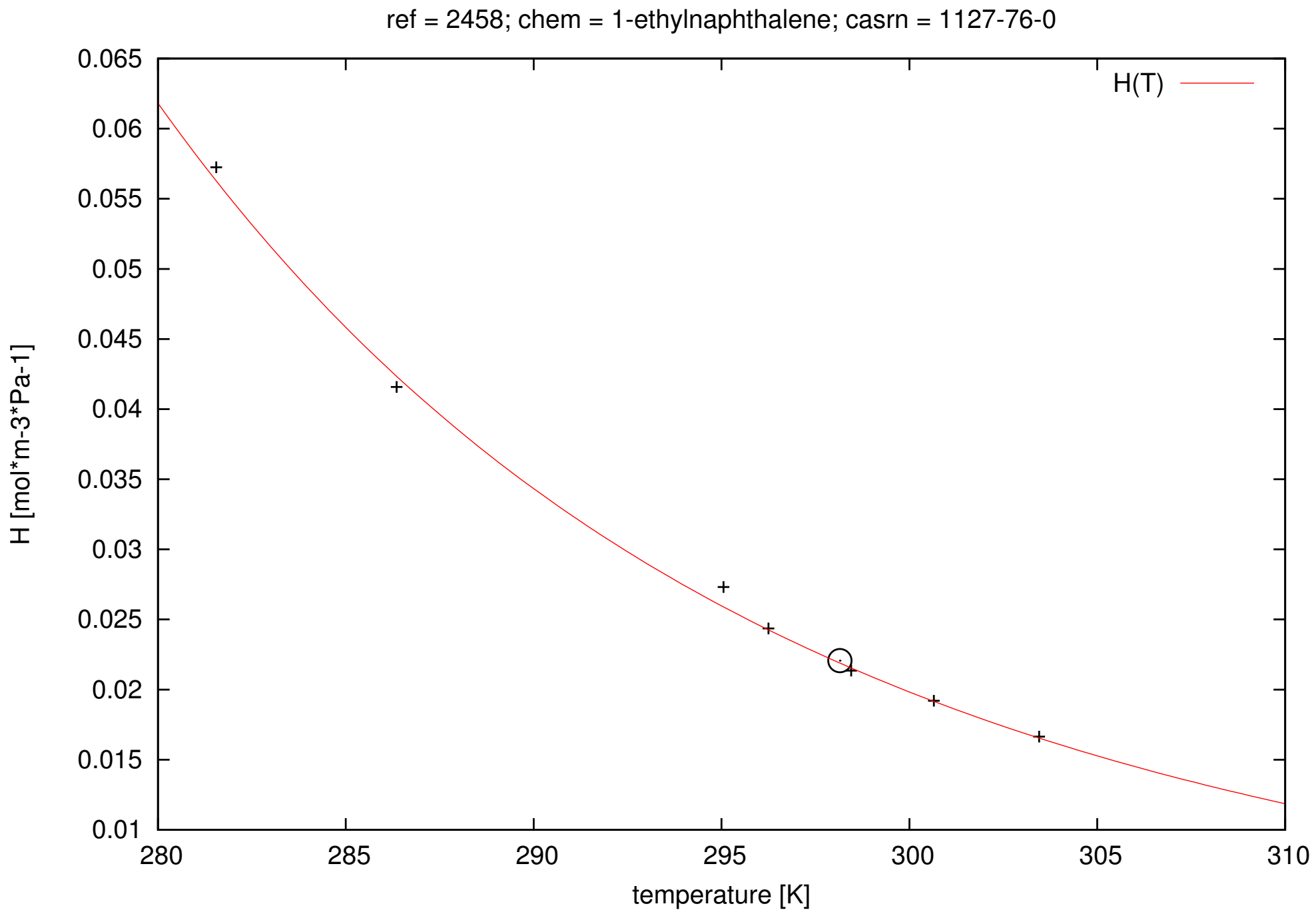

ref = 2453; chem = 1,2,3-trimethylbenzene; casrn = 526-73-8
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0
280
285
290
295
300
305
310
315
320

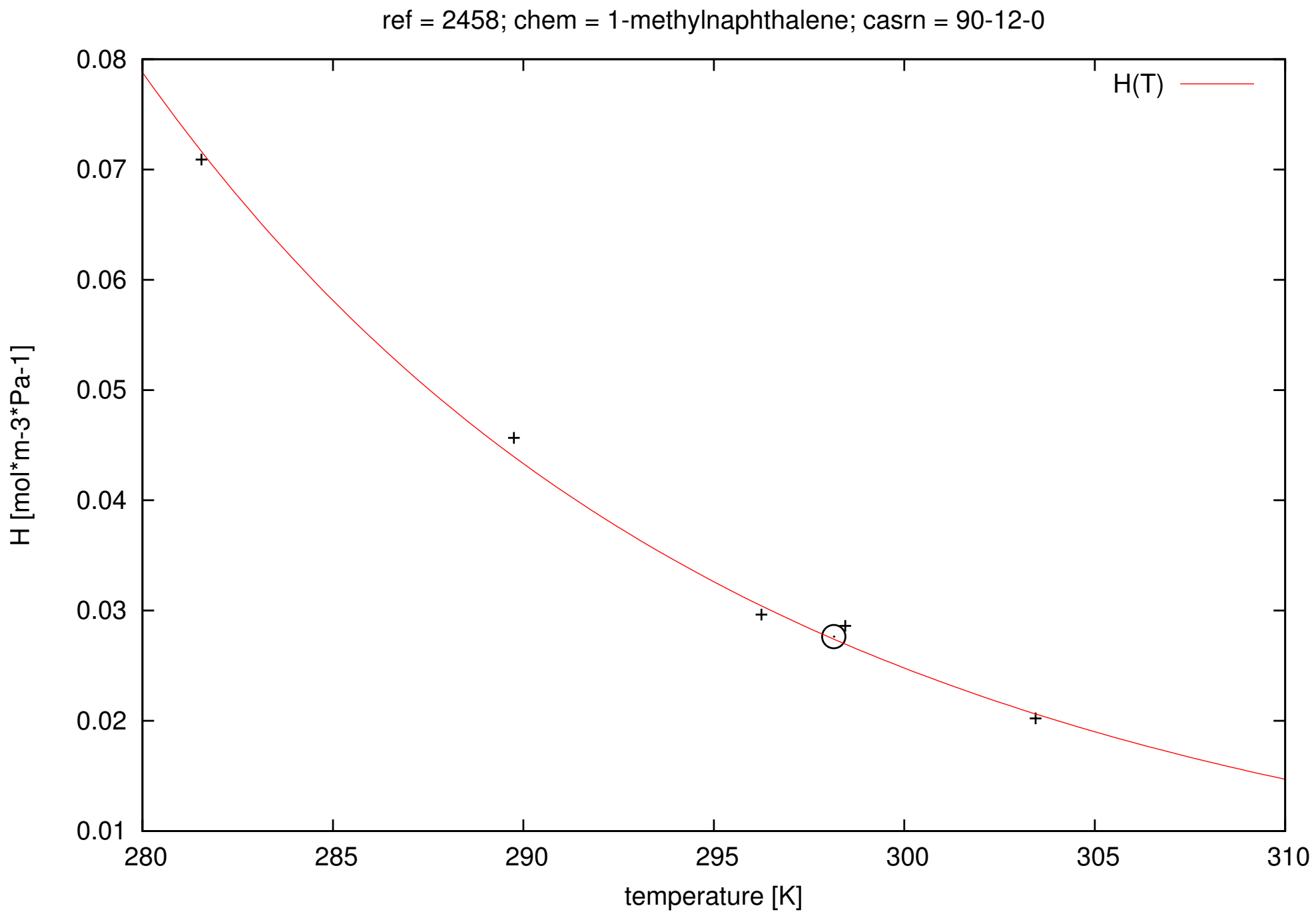

ref = 2453; chem = benzene; casrn = 71-43-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0
270
280
290
300
310
320

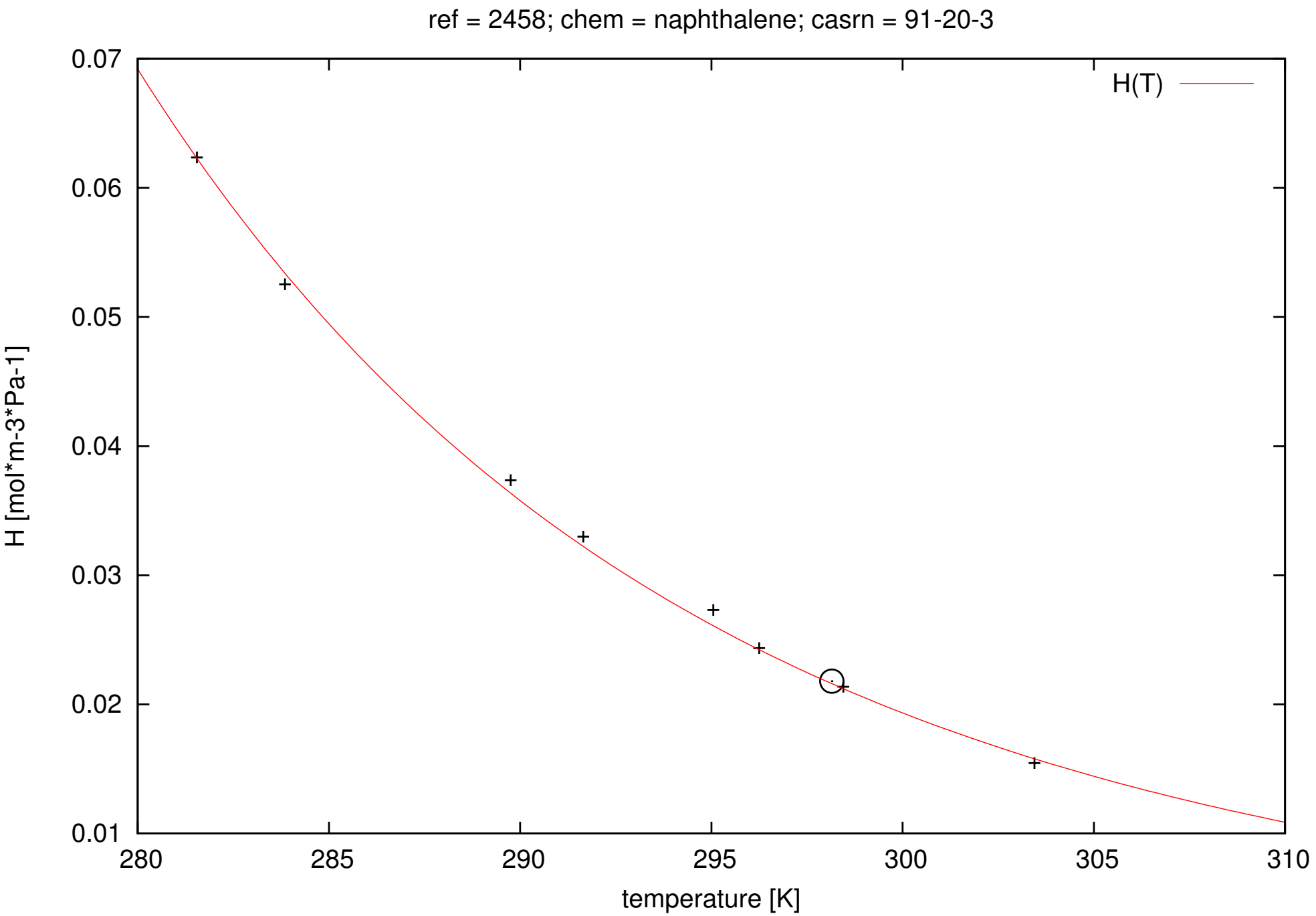

ref = 2453; chem = 1,2-dimethylbenzene; casrn = 95-47-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
280
285
290
295
300
305
310
315
320

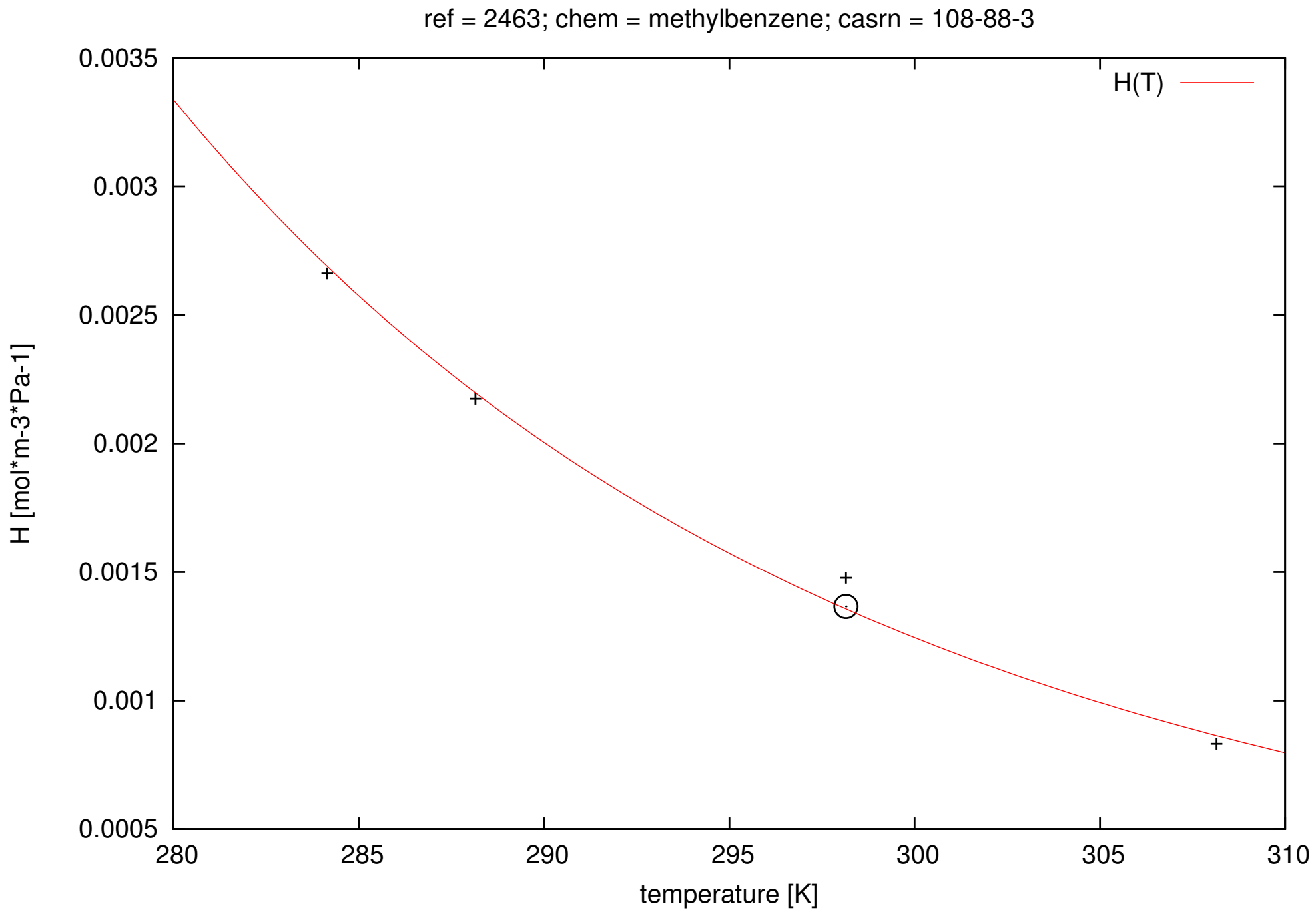

ref = 2453; chem = 1,2,4-trimethylbenzene; casrn = 95-63-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
280
285
290
295
300
305
310
315
320

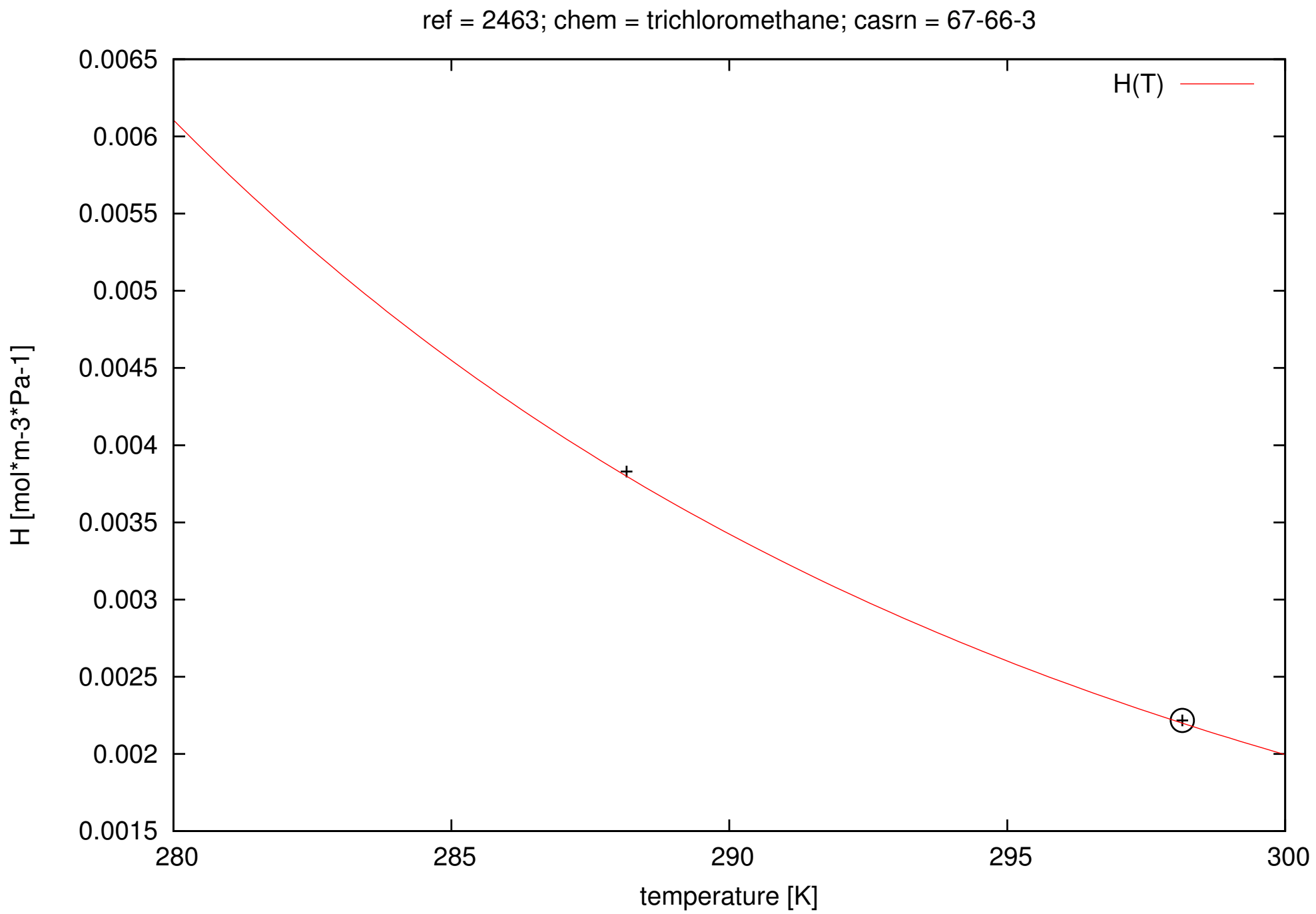

ref = 2453; chem = (2-propyl)-benzene; casrn = 98-82-8
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0025
0.002
0.0015
0.001
0.0005
0
280
285
290
295
300
305
310
315
320

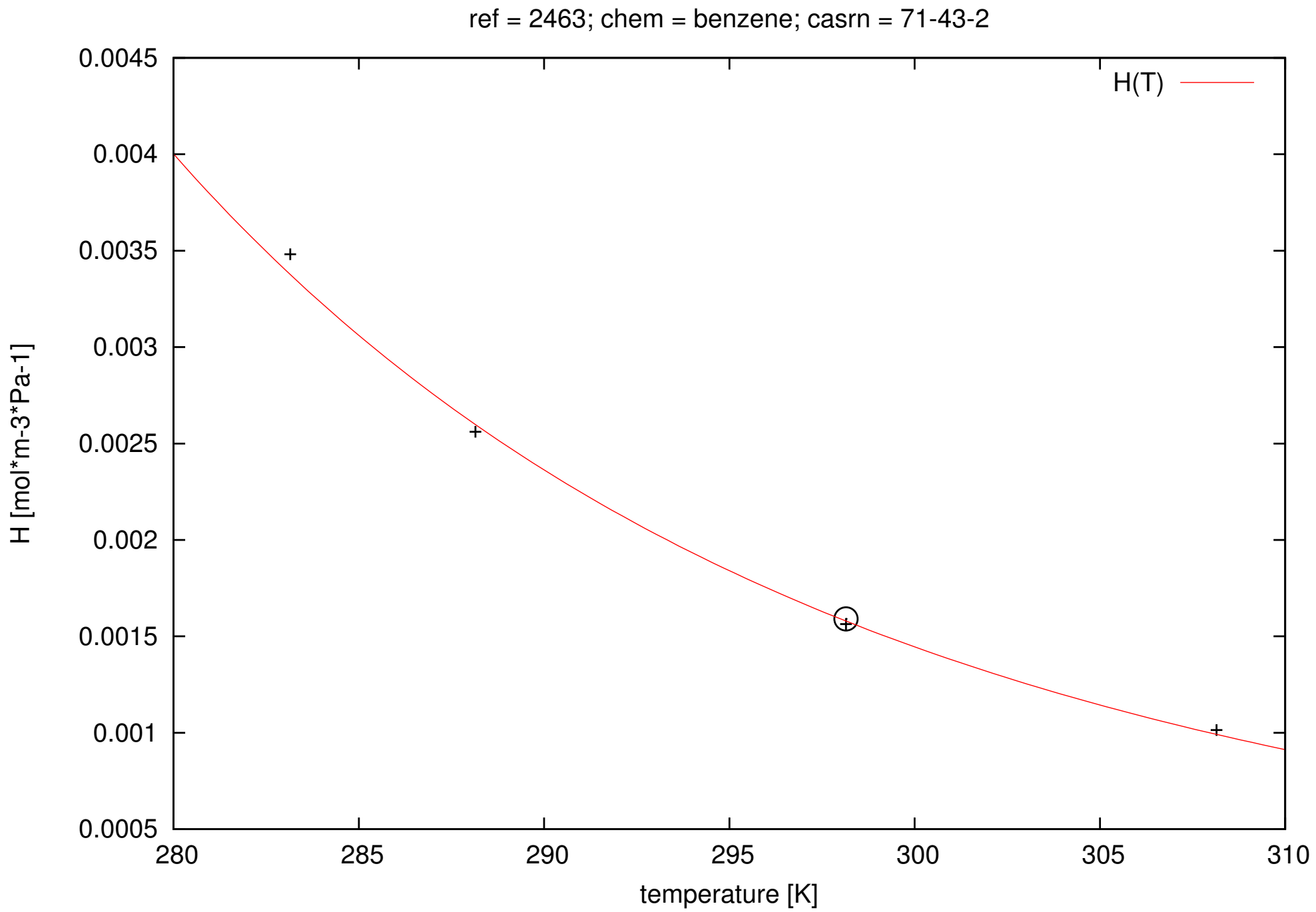

ref = 2458; chem = 1-ethylnaphthalene; casrn = 1127-76-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.065
0.06
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
280
285
290
295
300
305
310

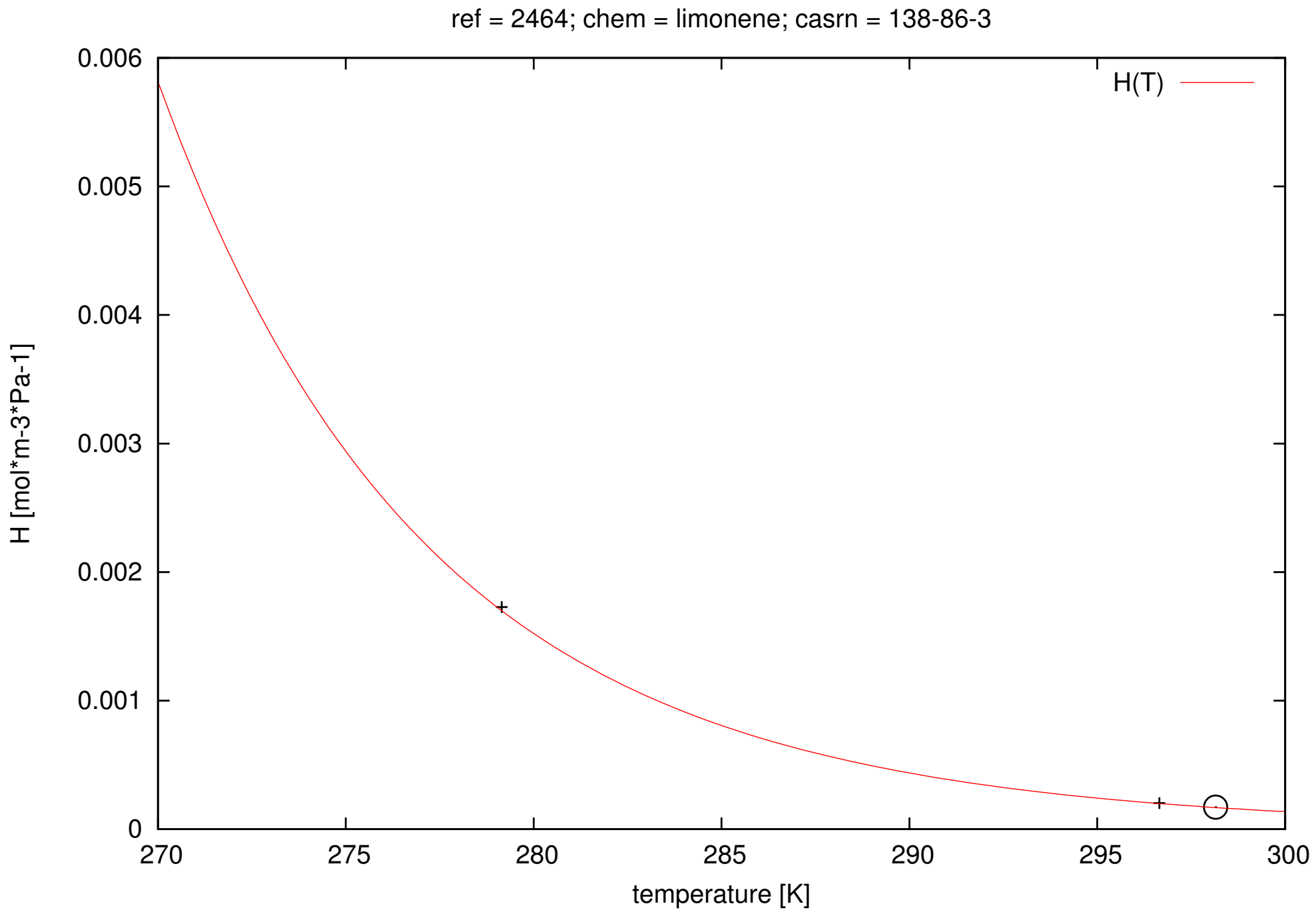

ref = 2458; chem = 1-methylnaphthalene; casrn = 90-12-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
280
285
290
295
300
305
310

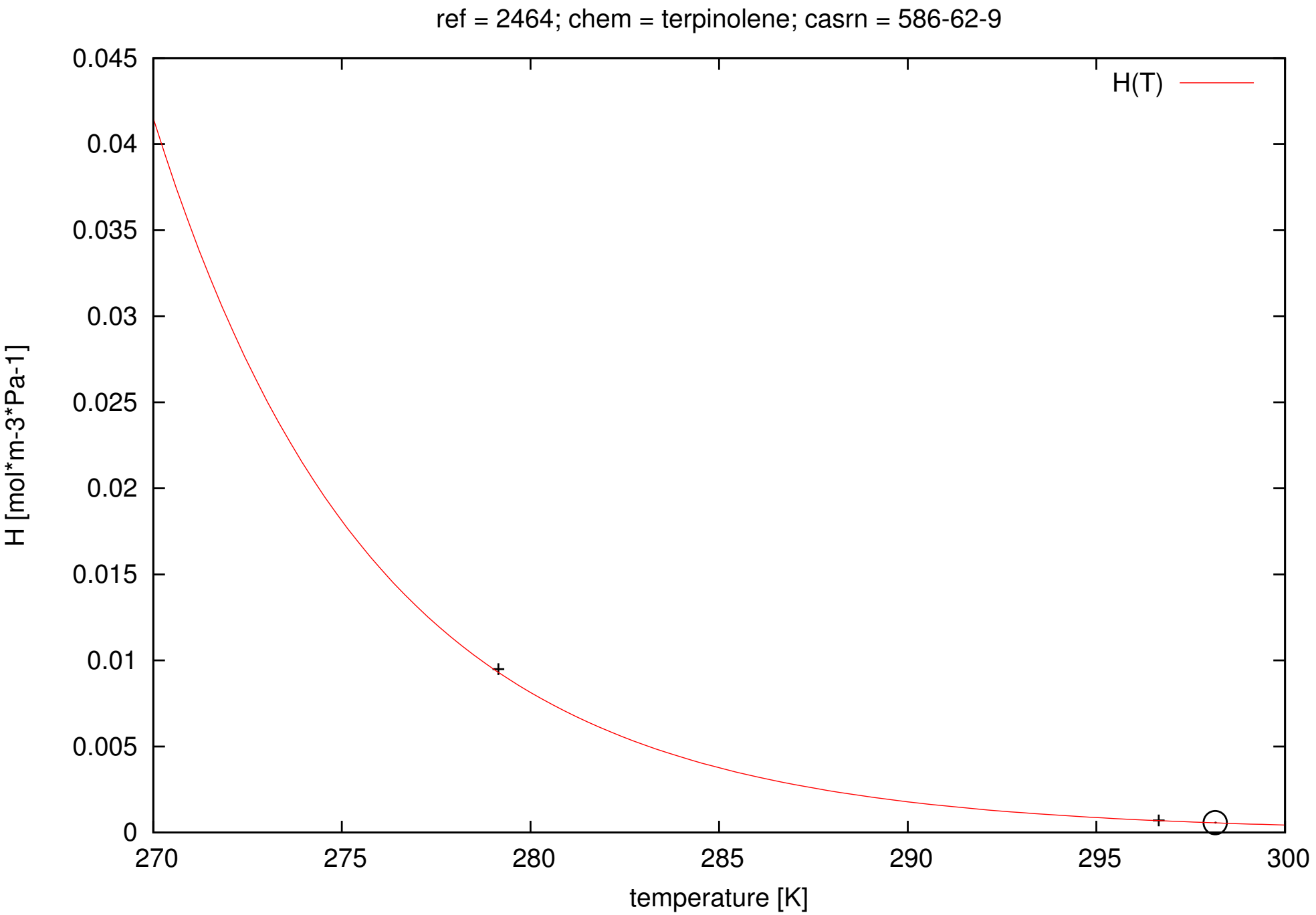

ref = 2458; chem = naphthalene; casrn = 91-20-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.07
0.06
0.05
0.04
0.03
0.02
0.01
280
285
290
295
300
305
310

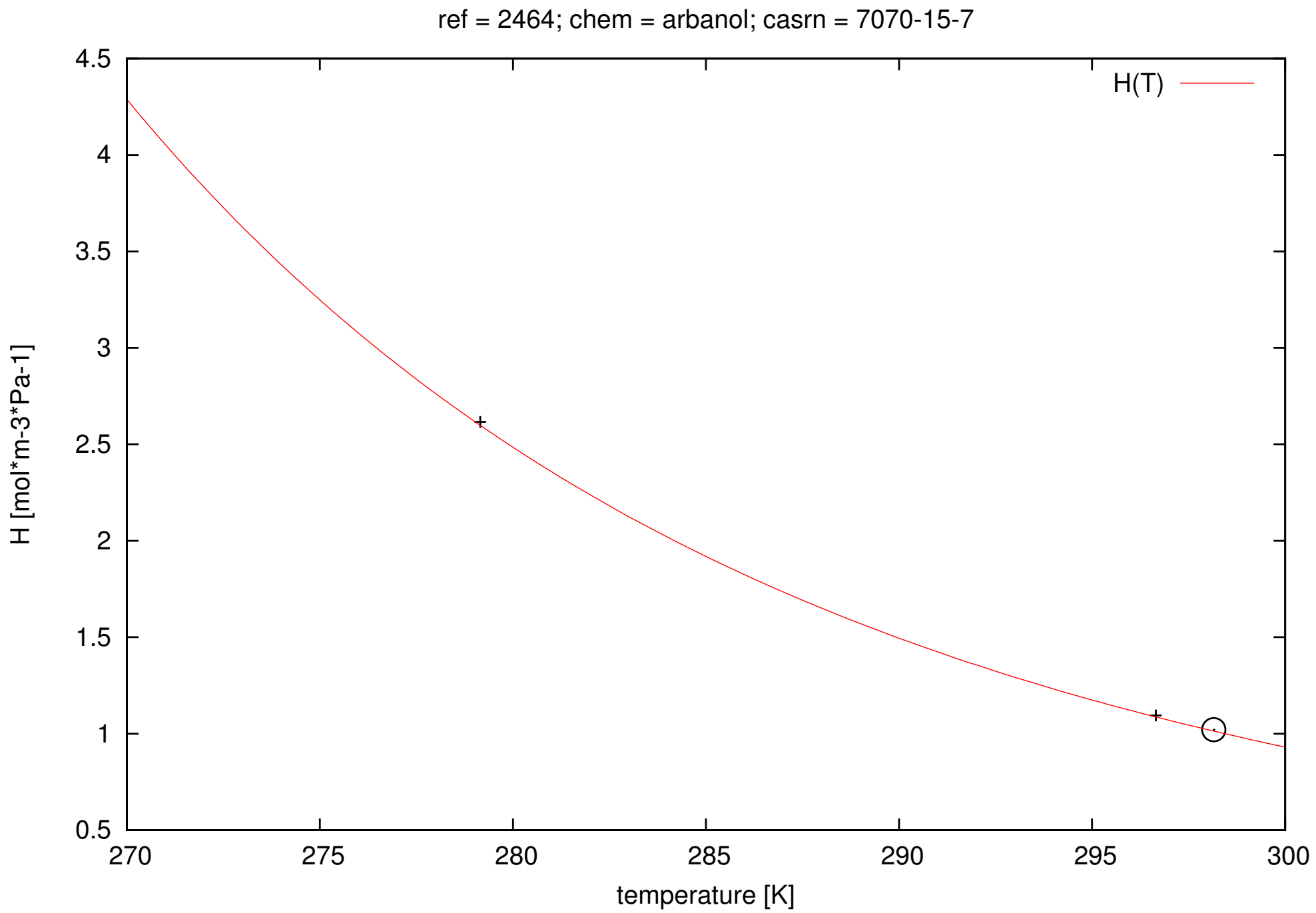

ref = 2463; chem = methylbenzene; casrn = 108-88-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
280
285
290
295
300
305
310

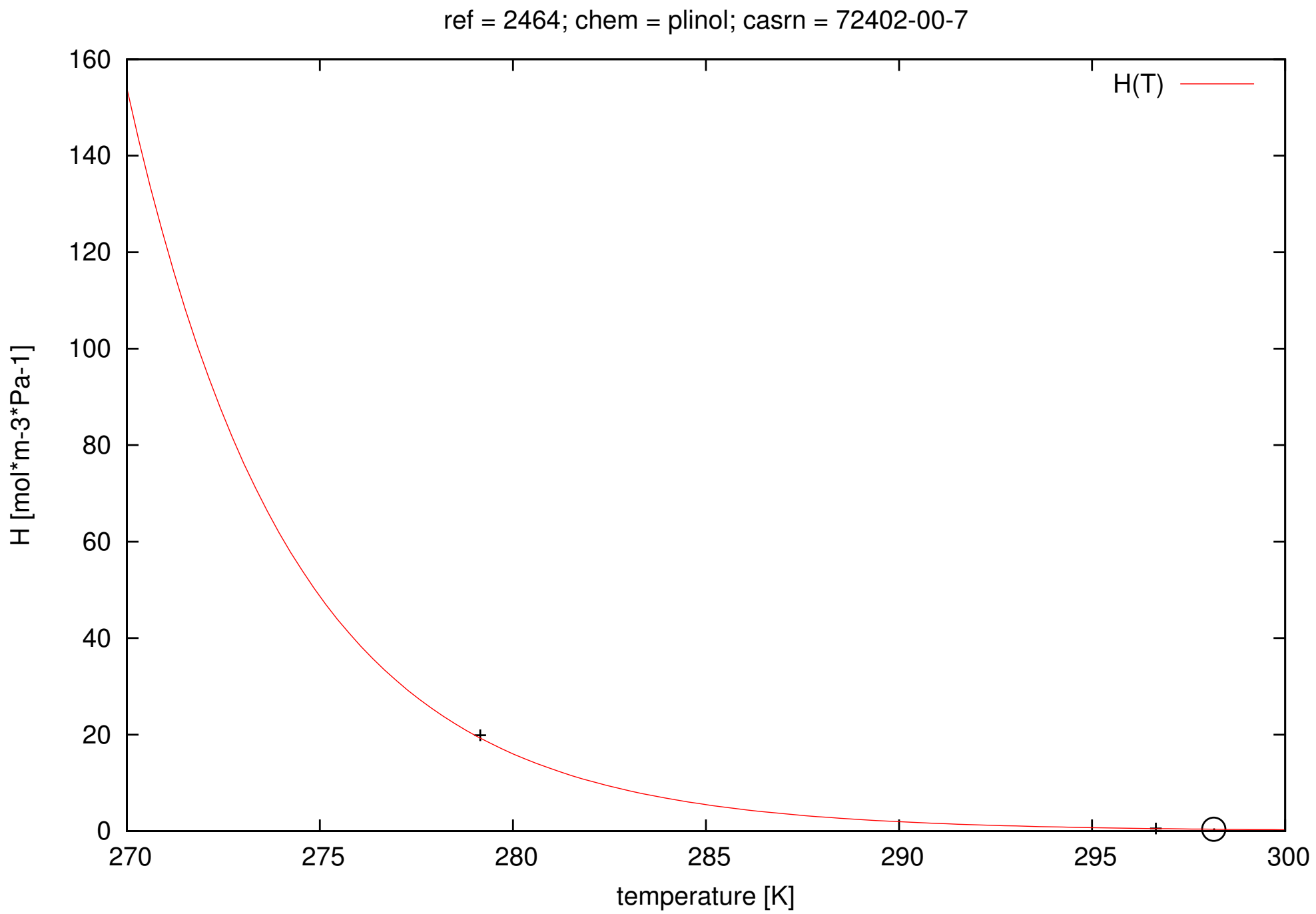

ref = 2463; chem = trichloromethane; casrn = 67-66-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
280
285
290
295
300

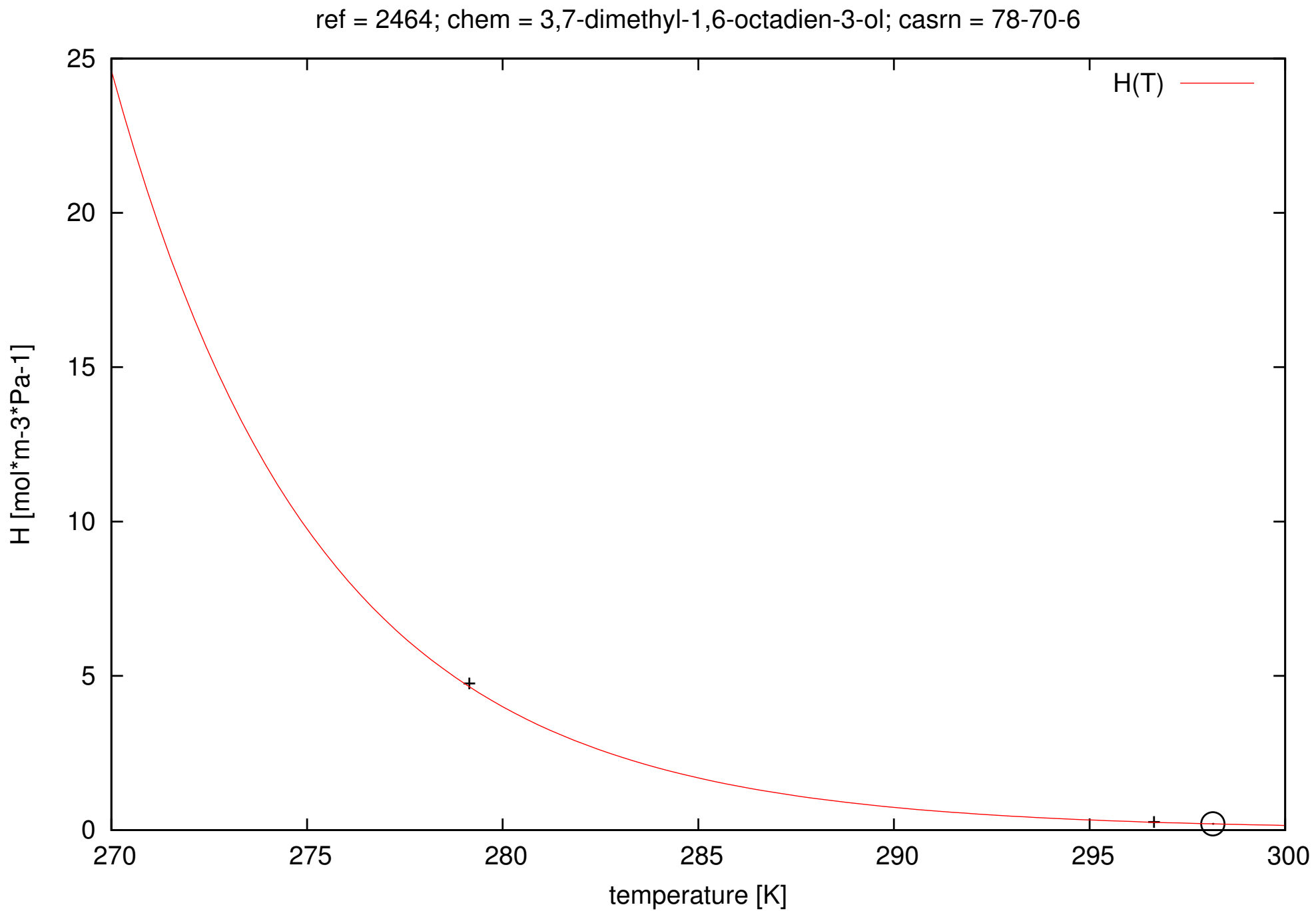

ref = 2463; chem = benzene; casrn = 71-43-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
280
285
290
295
300
305
310

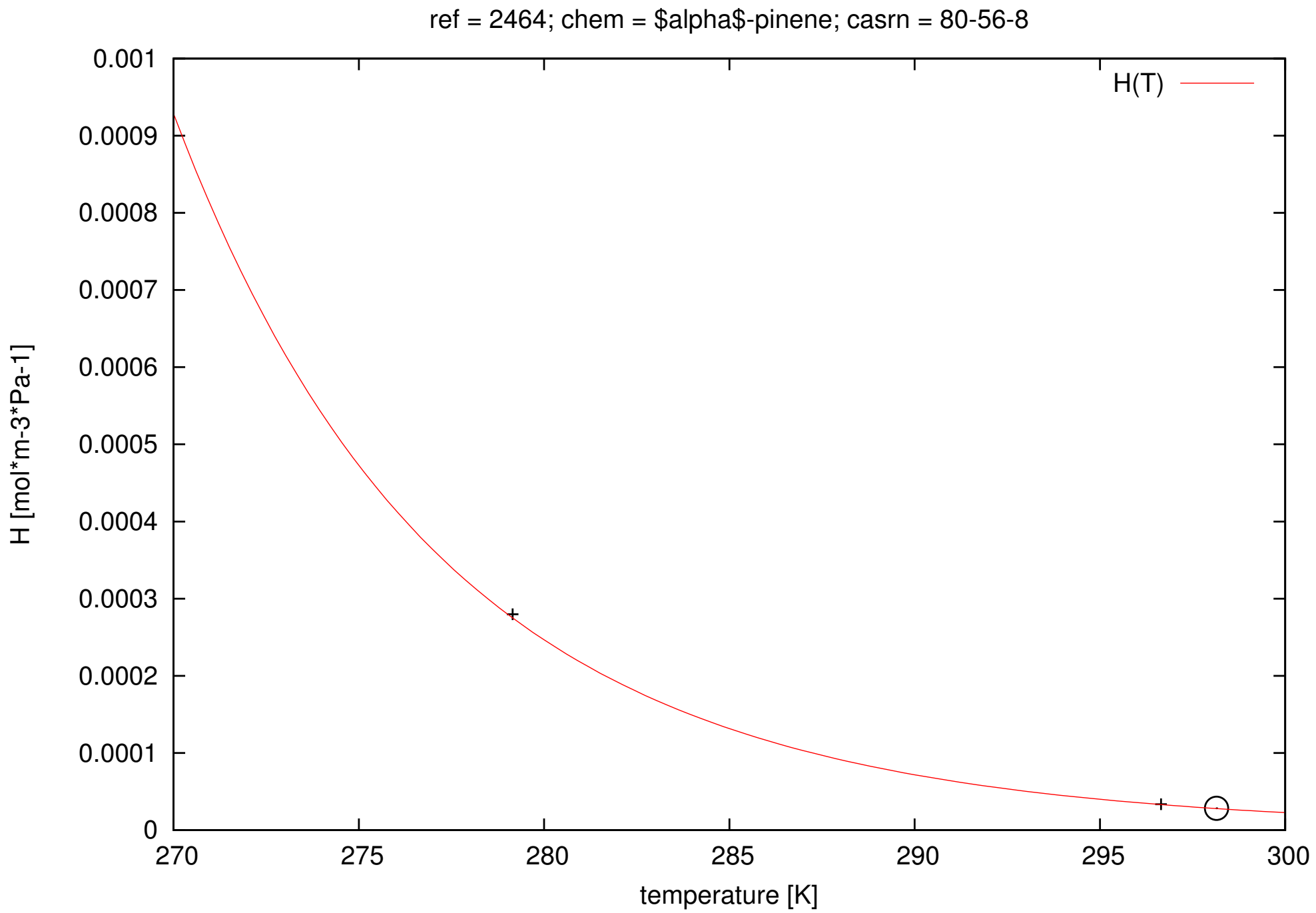

ref = 2464; chem = limonene; casrn = 138-86-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.006
0.005
0.004
0.003
0.002
0.001
0
270
275
280
285
290
295
300

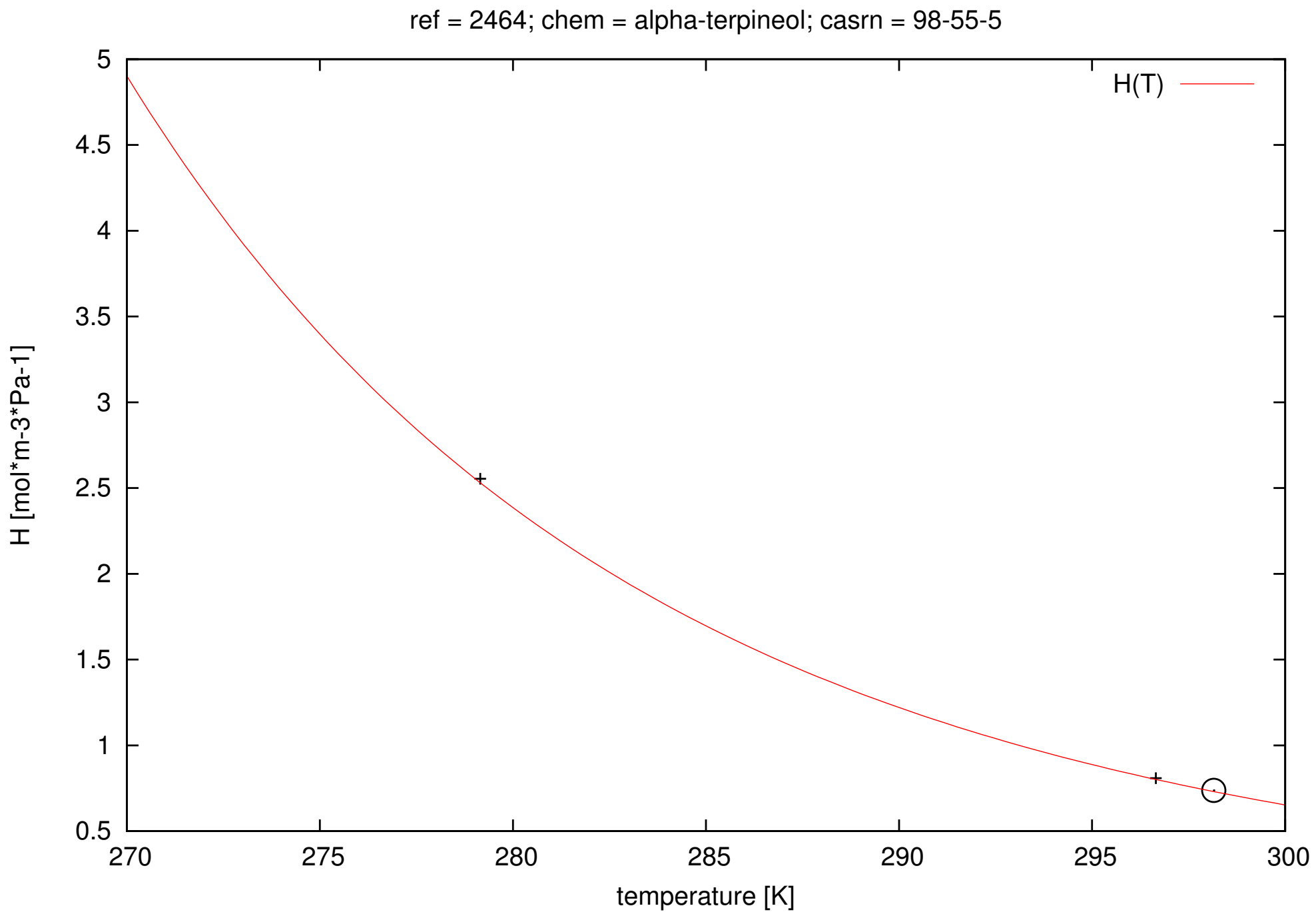

ref = 2464; chem = terpinolene; casrn = 586-62-9
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
270
275
280
285
290
295
300

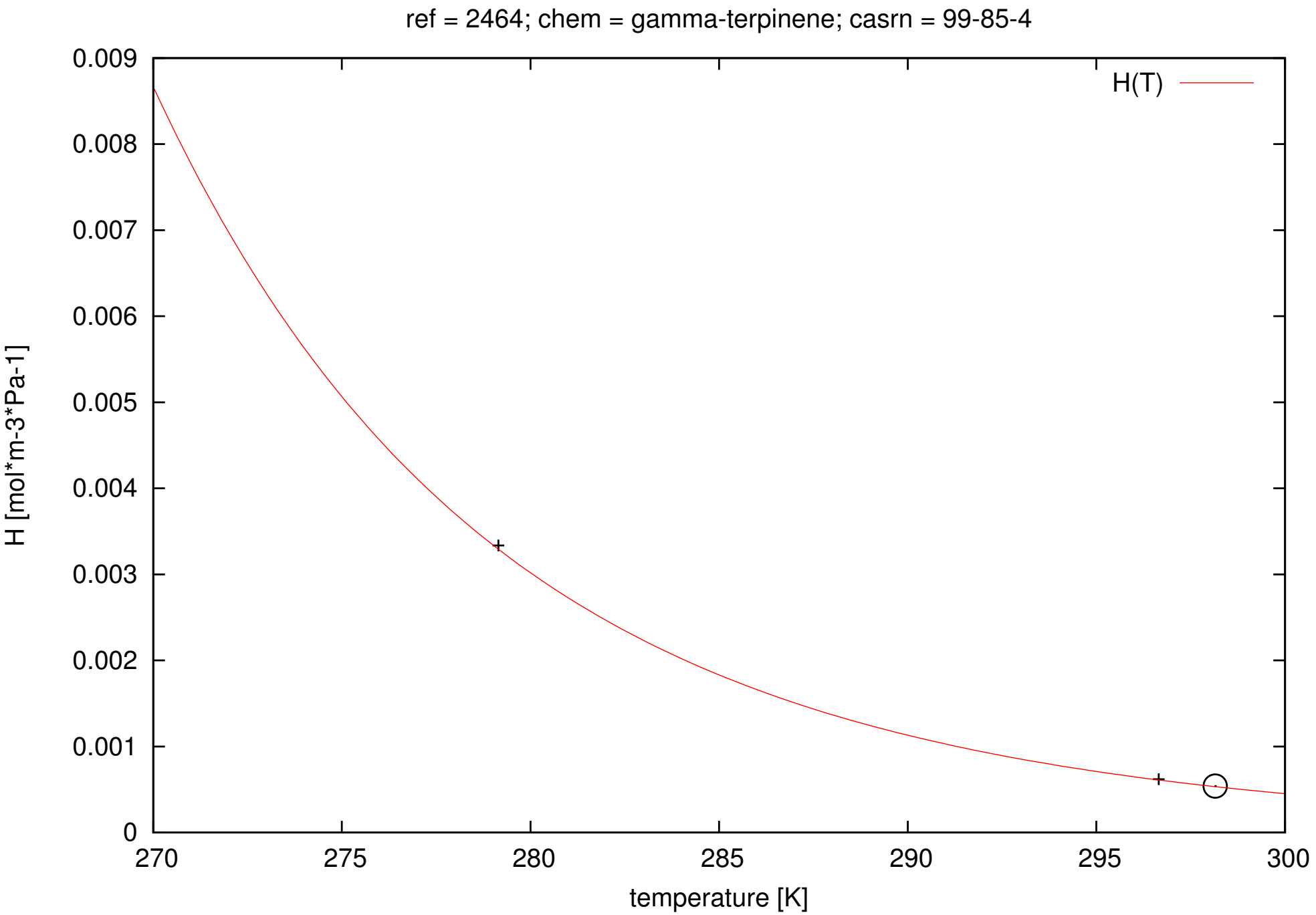

ref = 2464; chem = arbanol; casrn = 7070-15-7
H(T)
H [mol*m-3*Pa-1]
temperature [K]
4.5
4
3.5
3
2.5
2
1.5
1
0.5
270
275
280
285
290
295
300

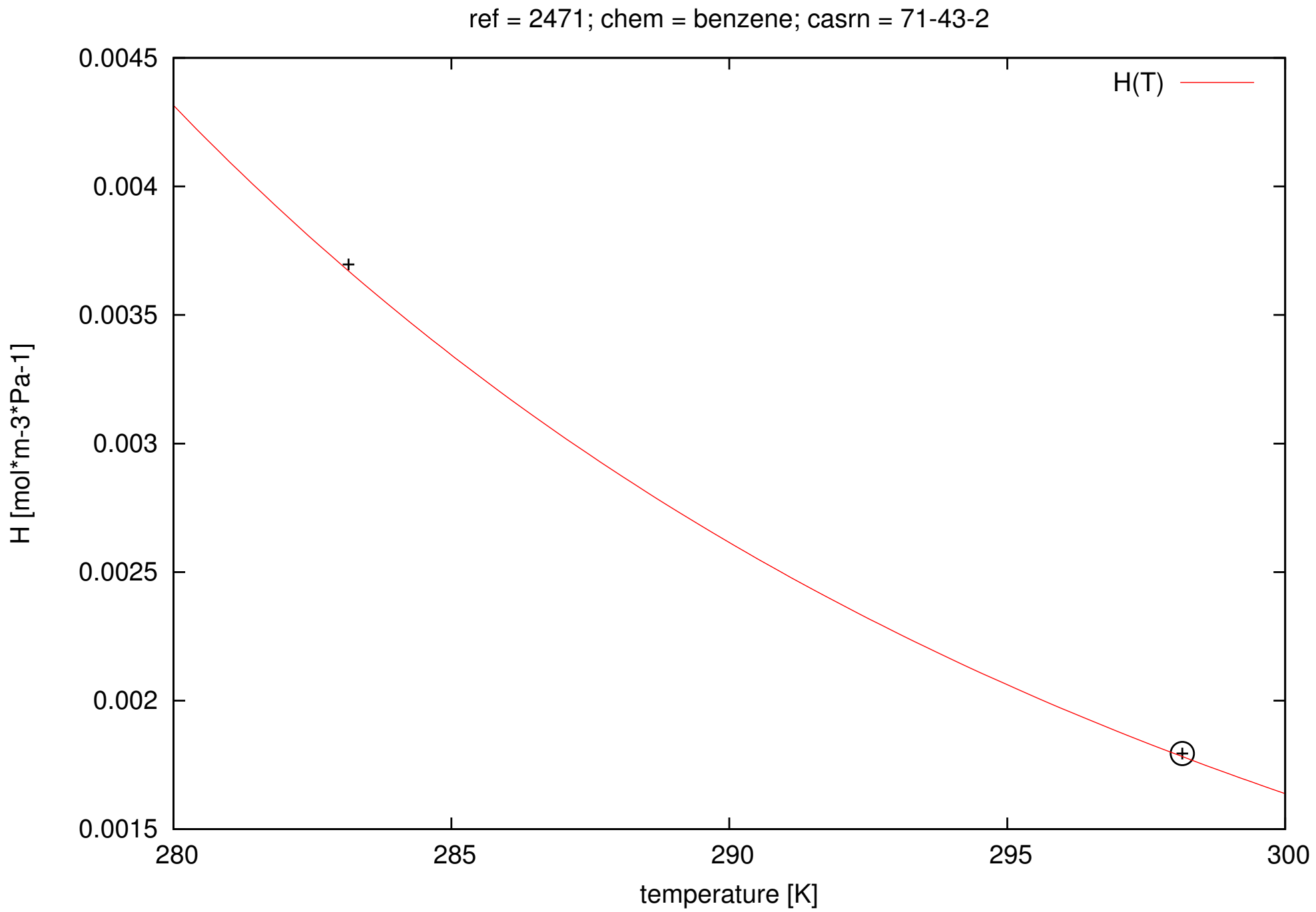

ref = 2464; chem = plinol; casrn = 72402-00-7
H(T)
H [mol*m-3*Pa-1]
temperature [K]
160
140
120
100
80
60
40
20
0
270
275
280
285
290
295
300

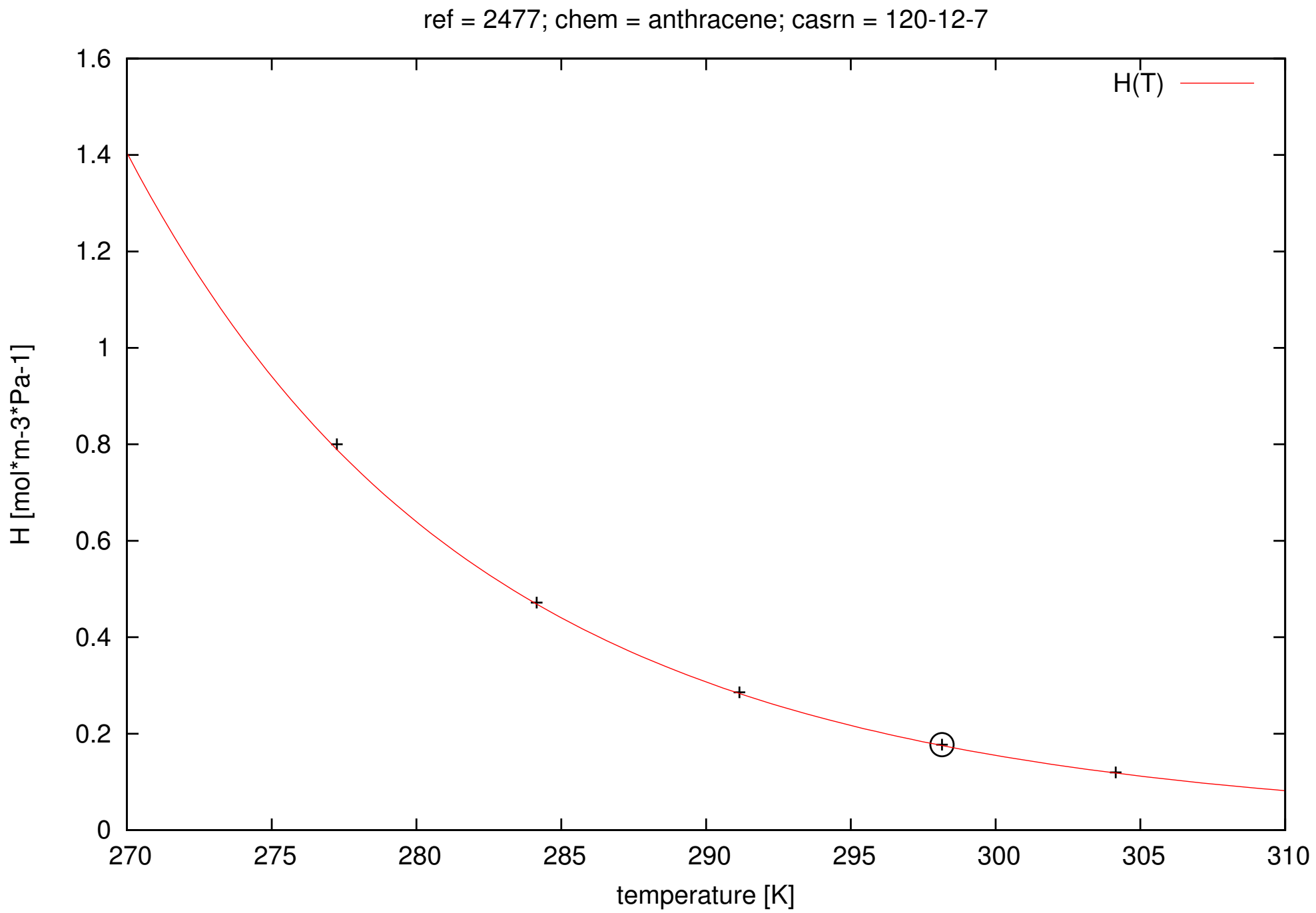

ref = 2464; chem = 3,7-dimethyl-1,6-octadien-3-ol; casrn = 78-70-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0
5
10
15
20
25
270
275
280
285
290
295
300

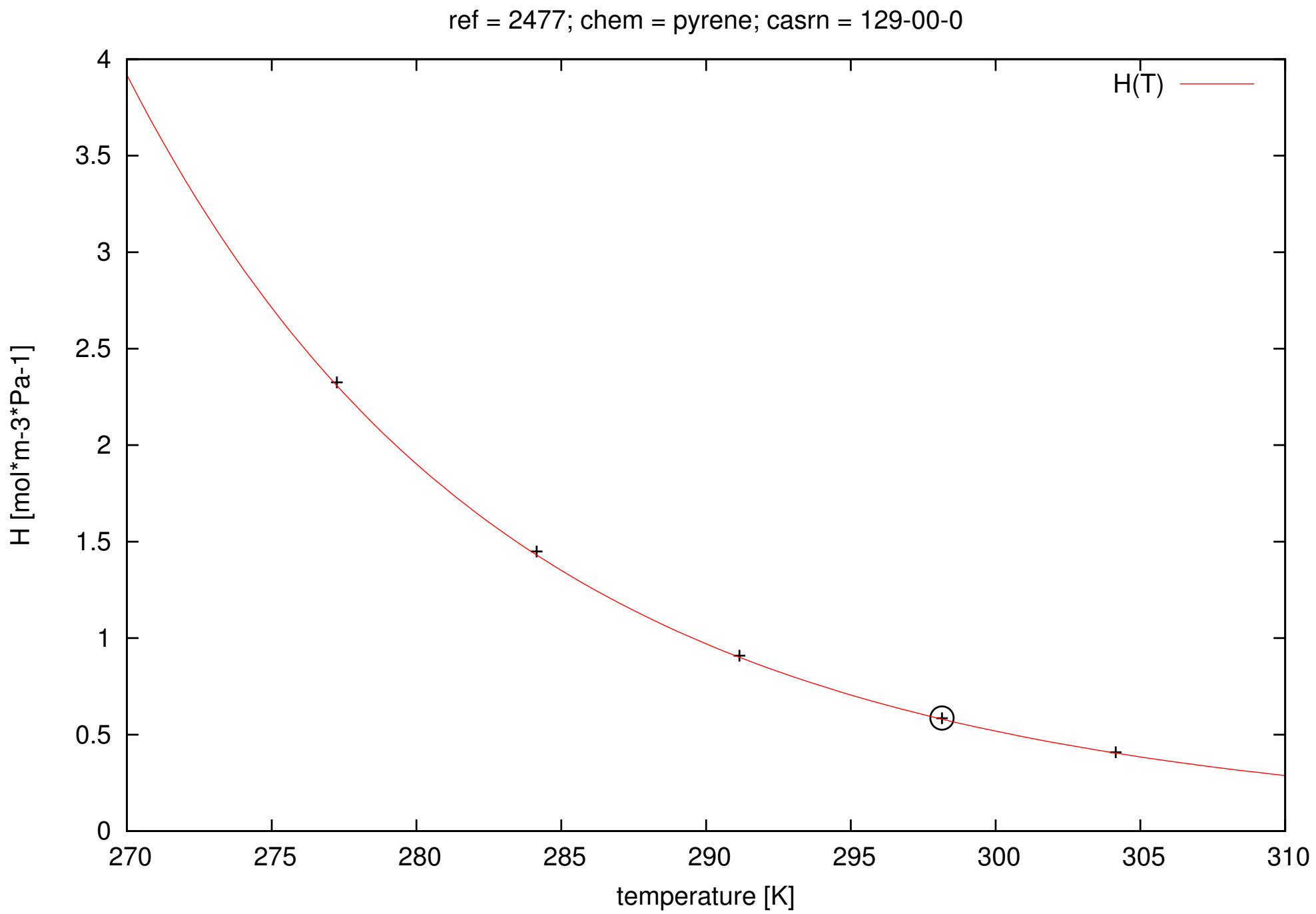

ref = 2464; chem = $alpha$-pinene; casrn = 80-56-8
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.001
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0
270
275
280
285
290
295
300

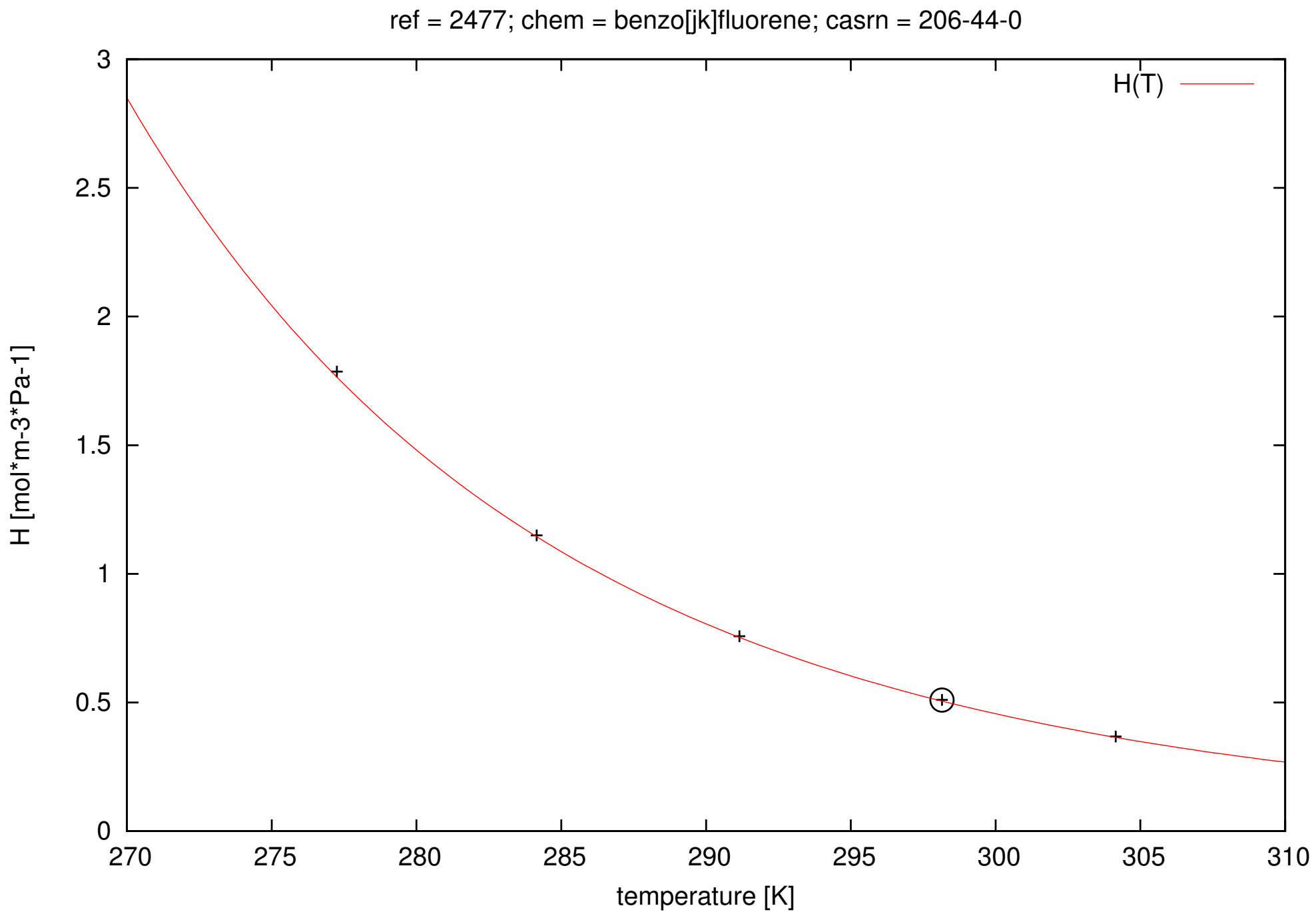

ref = 2464; chem = alpha-terpineol; casrn = 98-55-5
H(T)
H [mol*m-3*Pa-1]
temperature [K]
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
270
275
280
285
290
295
300

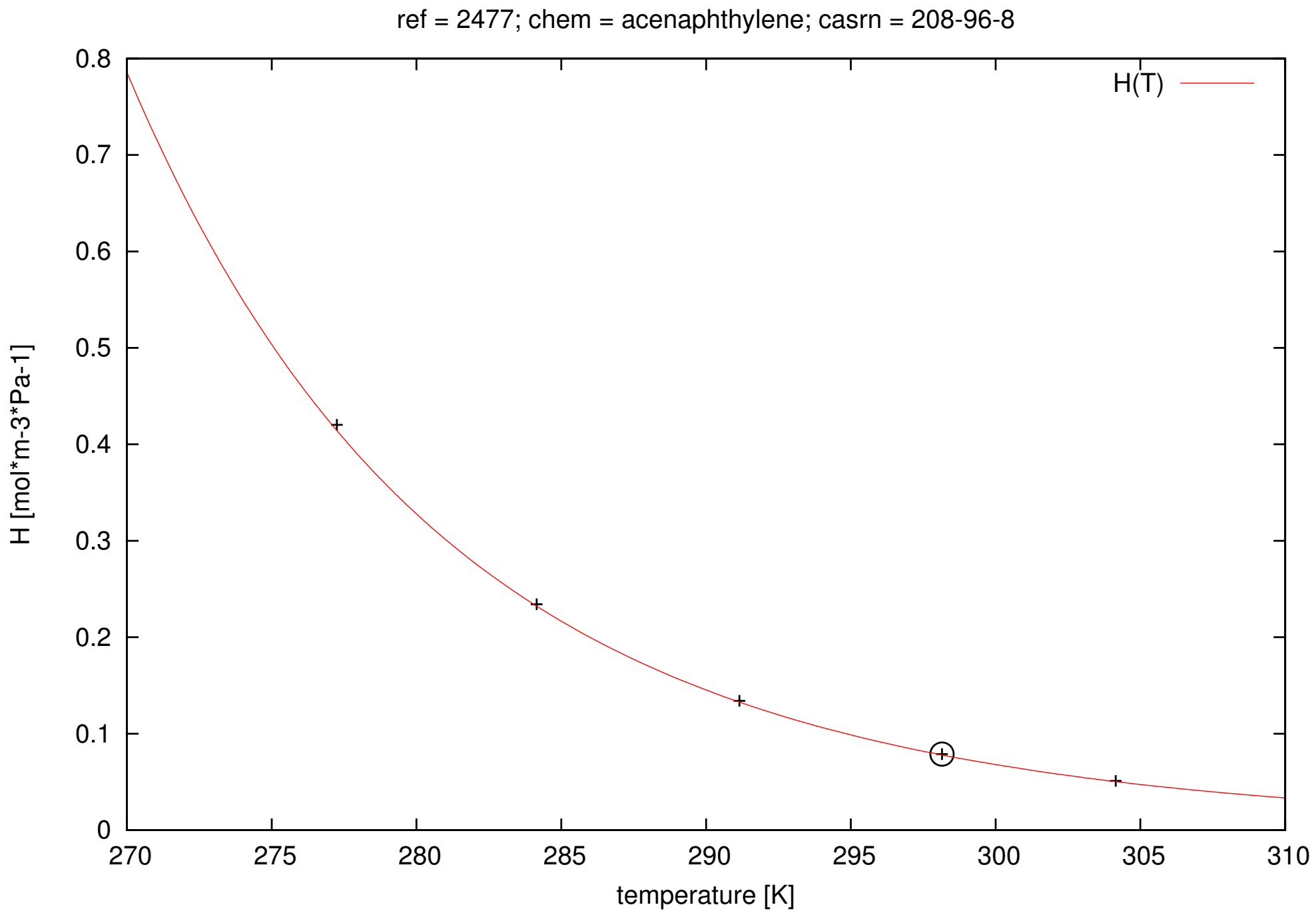

ref = 2464; chem = gamma-terpinene; casrn = 99-85-4
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0
270
275
280
285
290
295
300

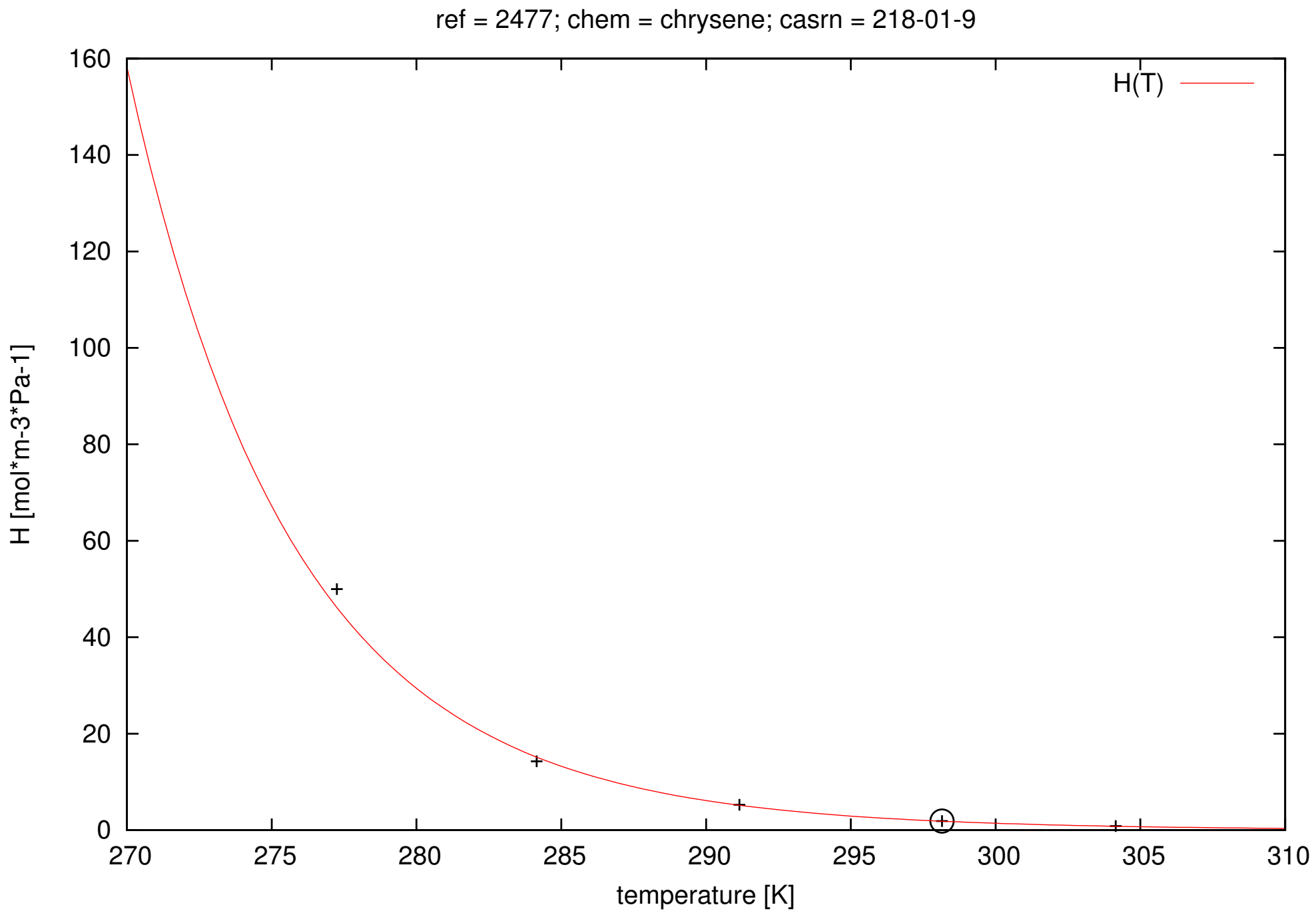

ref = 2471; chem = benzene; casrn = 71-43-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
280
285
290
295
300

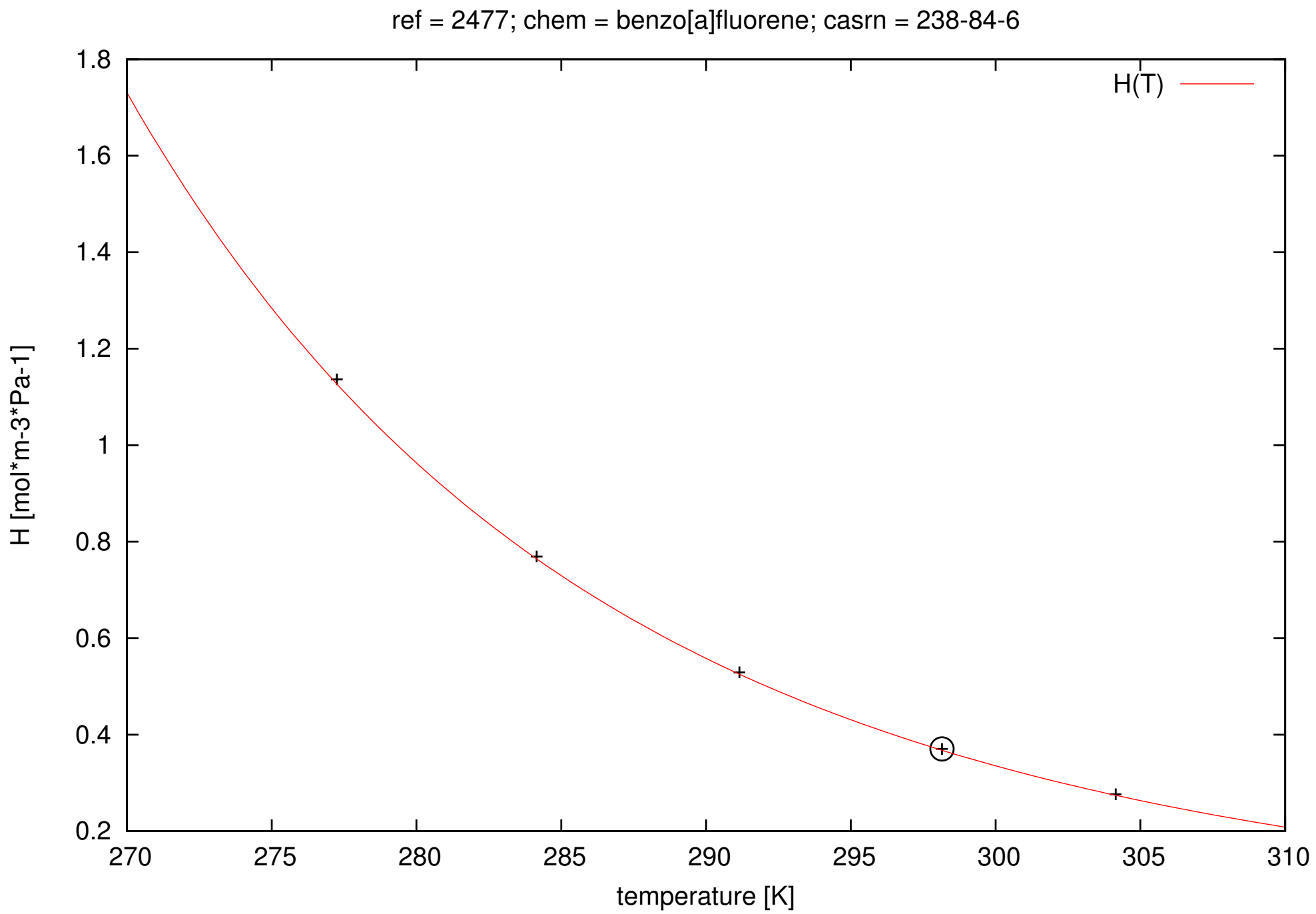

ref = 2477; chem = anthracene; casrn = 120-12-7
H(T)
H [mol*m-3*Pa-1]
temperature [K]
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
270
275
280
285
290
295
300
305
310

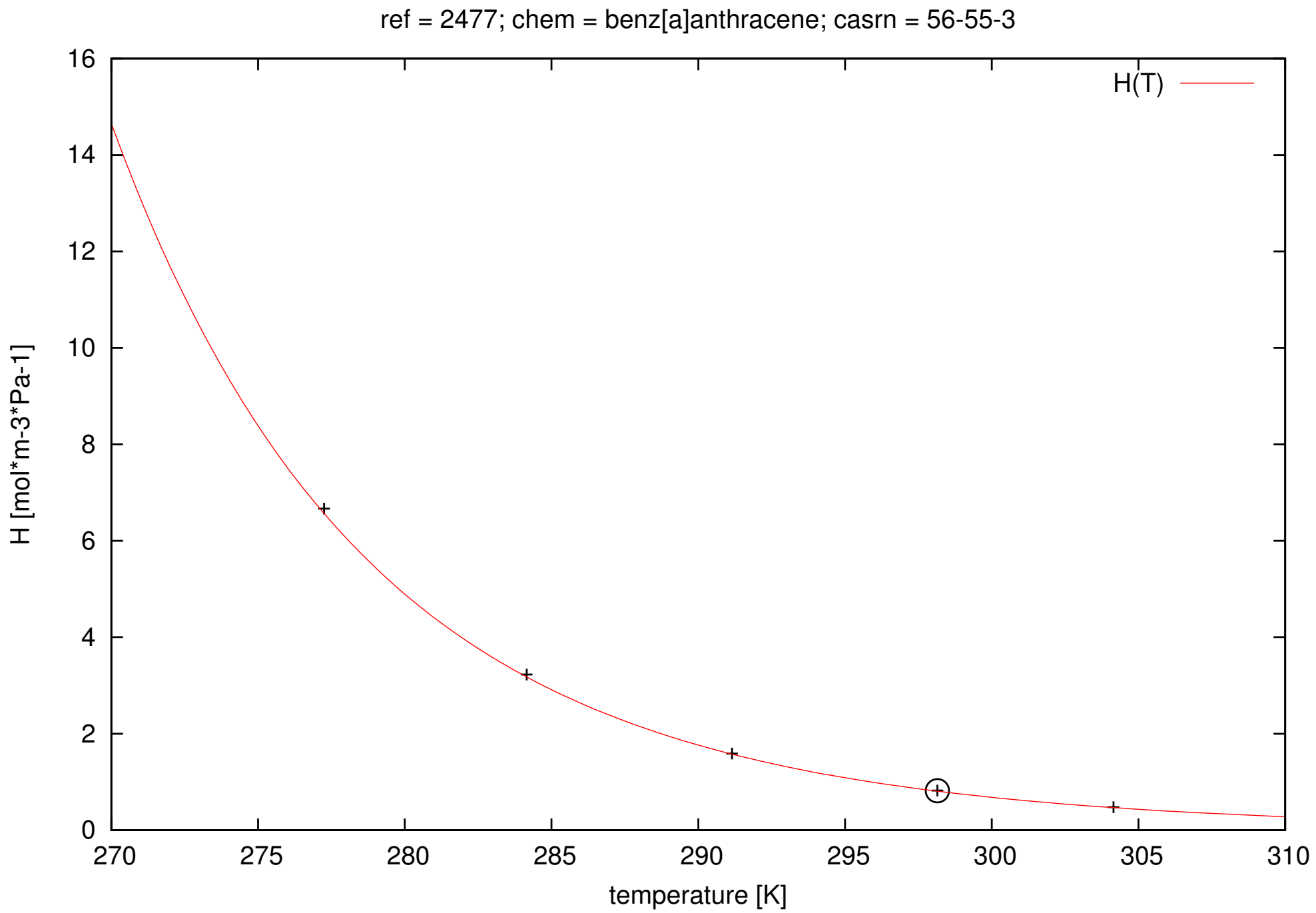

ref = 2477; chem = pyrene; casrn = 129-00-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0
0.5
1
1.5
2
2.5
3
3.5
4
270
275
280
285
290
295
300
305
310

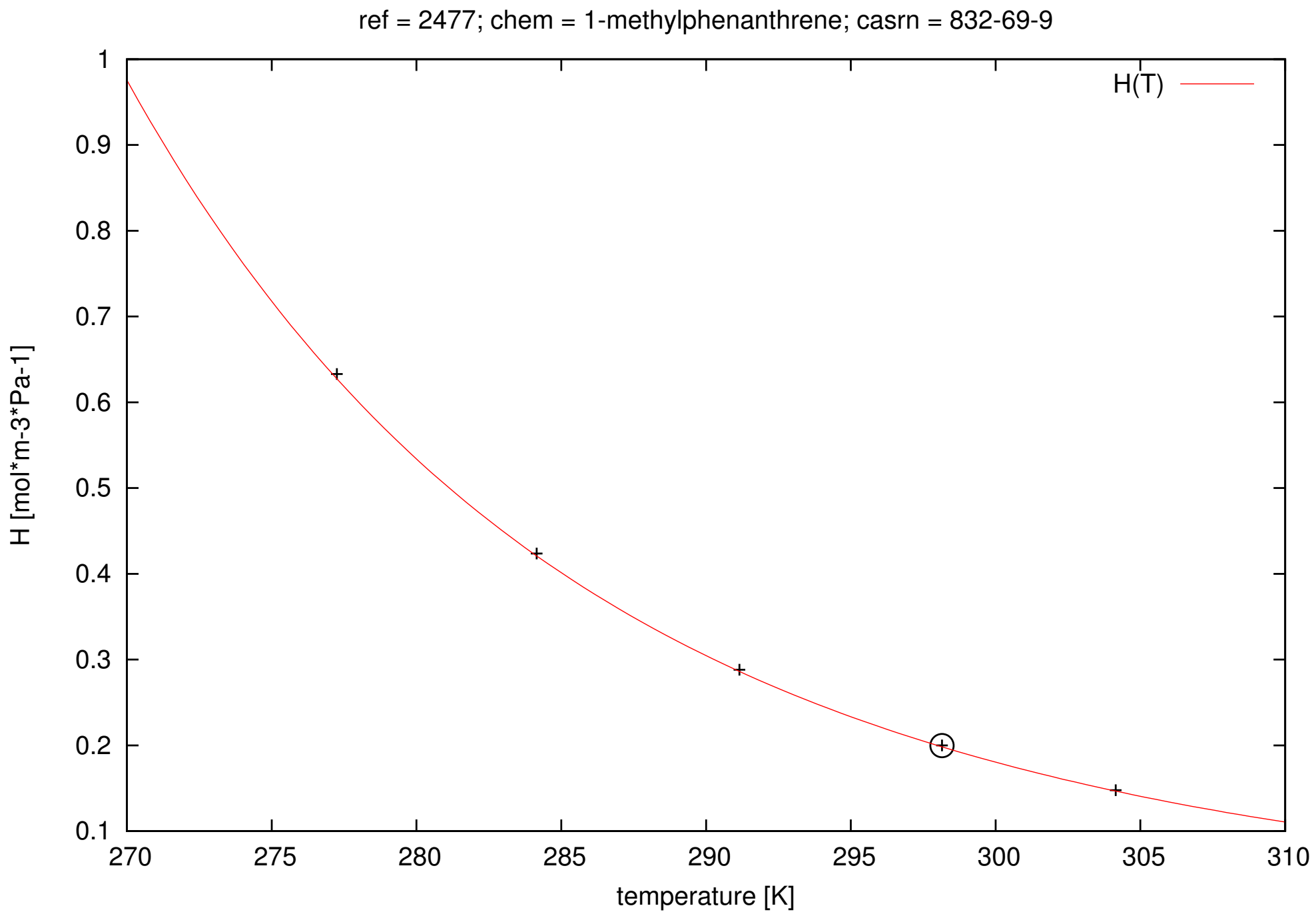

ref = 2477; chem = benzo[jk]fluorene; casrn = 206-44-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0
0.5
1
1.5
2
2.5
3
270
275
280
285
290
295
300
305
310

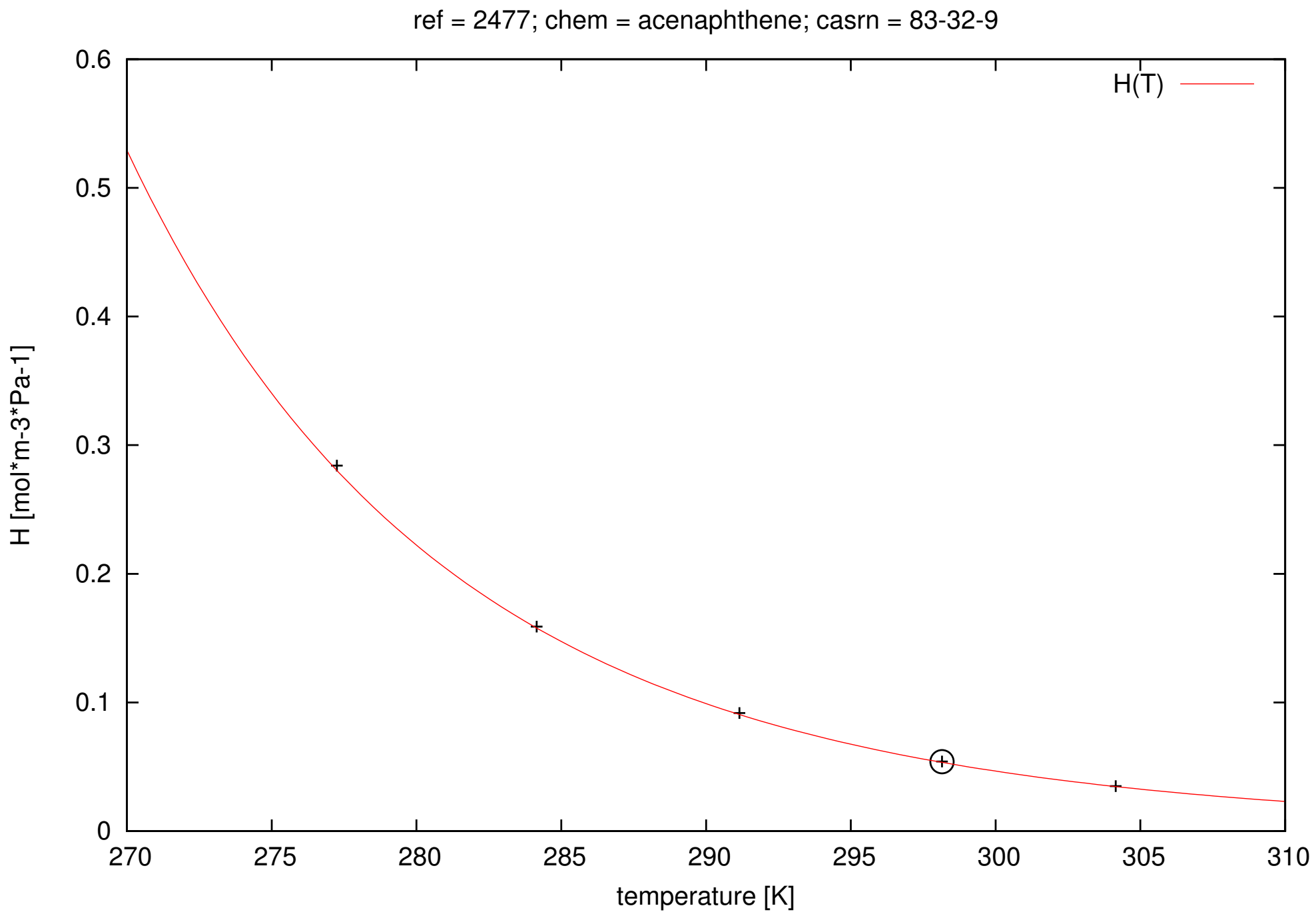

ref = 2477; chem = acenaphthylene; casrn = 208-96-8
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
270
275
280
285
290
295
300
305
310

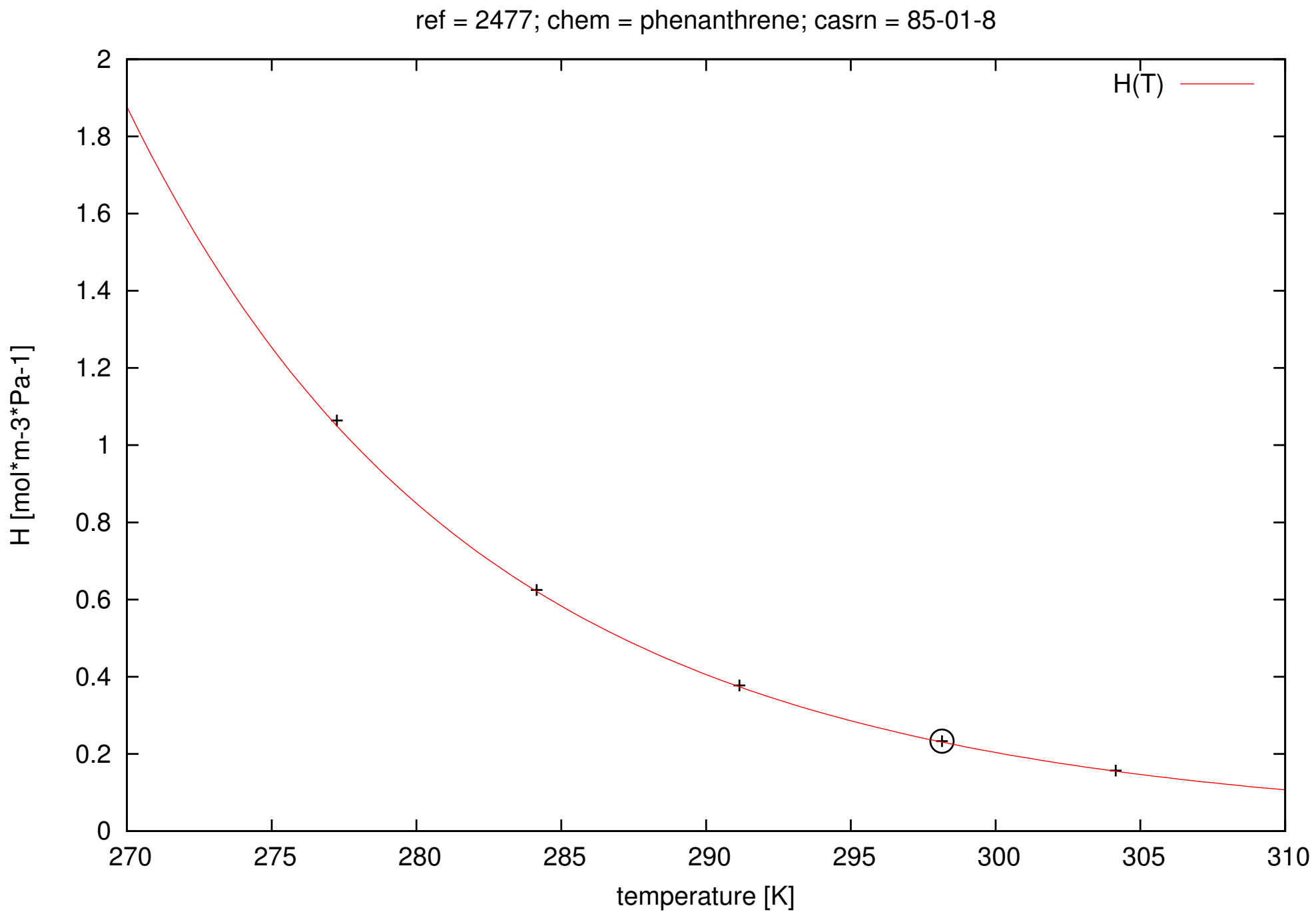

ref = 2477; chem = chrysene; casrn = 218-01-9
H(T)
H [mol*m-3*Pa-1]
temperature [K]
160
140
120
100
80
60
40
20
0
270
275
280
285
290
295
300
305
310

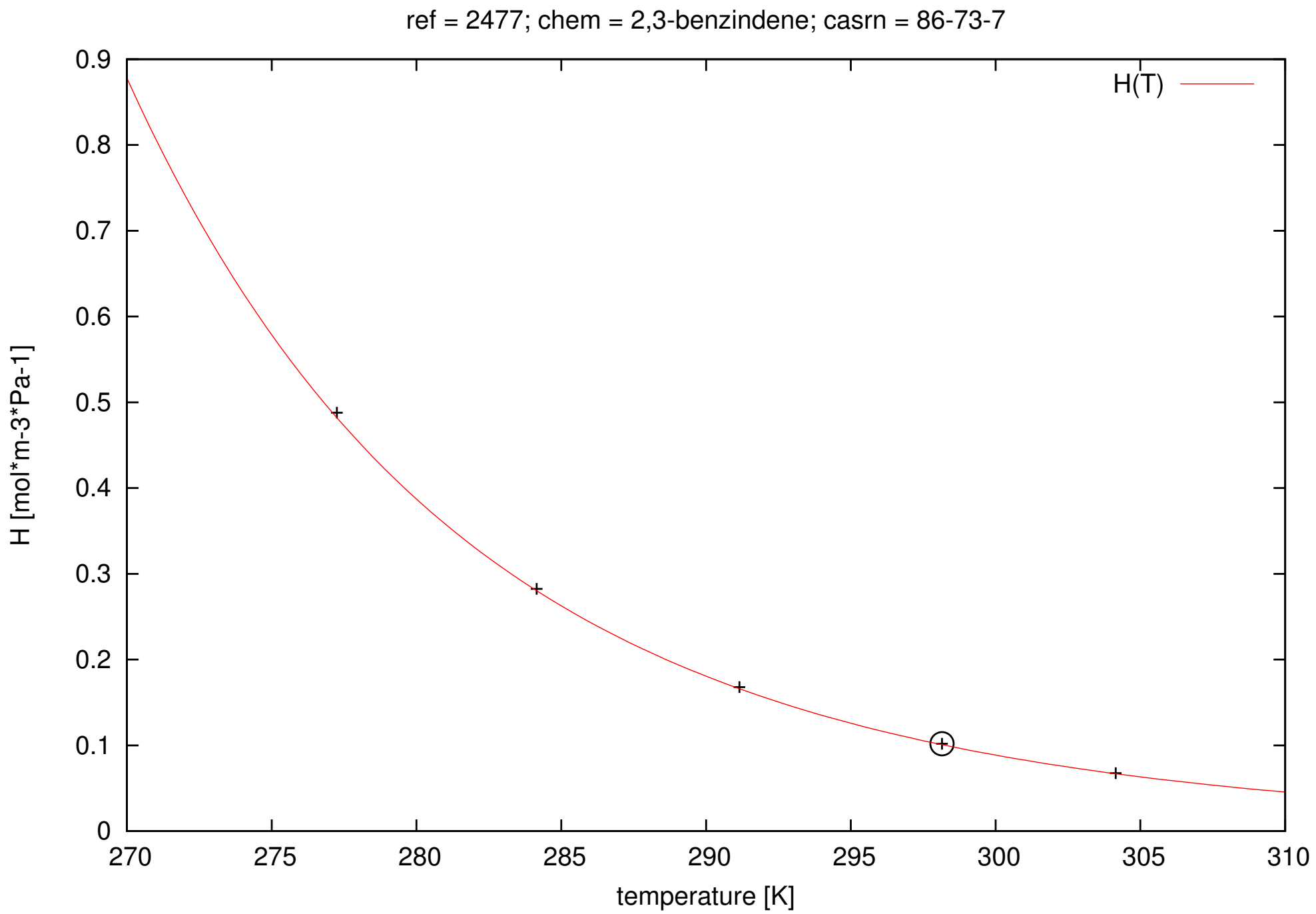

ref = 2477; chem = benzo[a]fluorene; casrn = 238-84-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
270
275
280
285
290
295
300
305
310

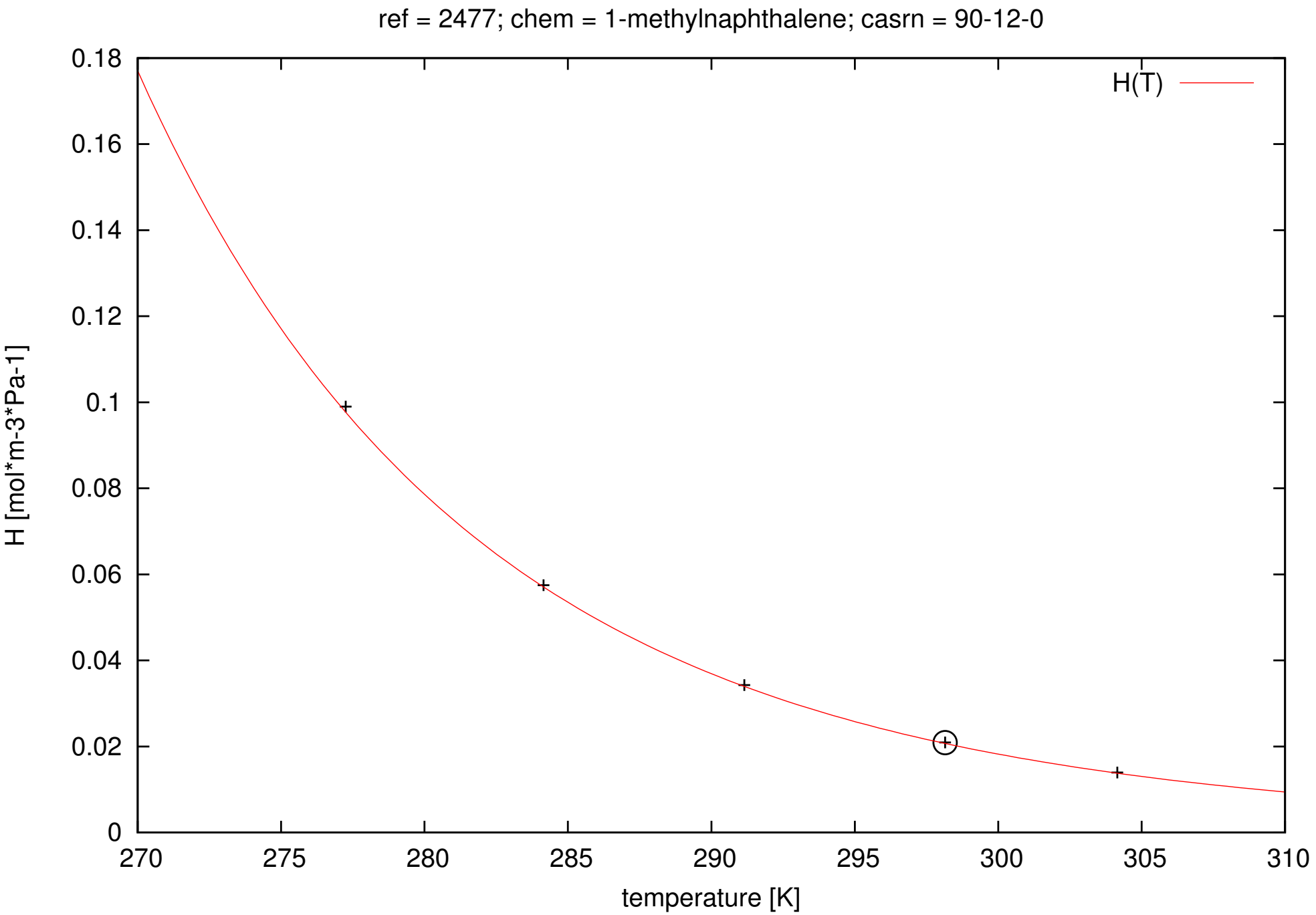

ref = 2477; chem = benz[a]anthracene; casrn = 56-55-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0
2
4
6
8
10
12
14
16
270
275
280
285
290
295
300
305
310

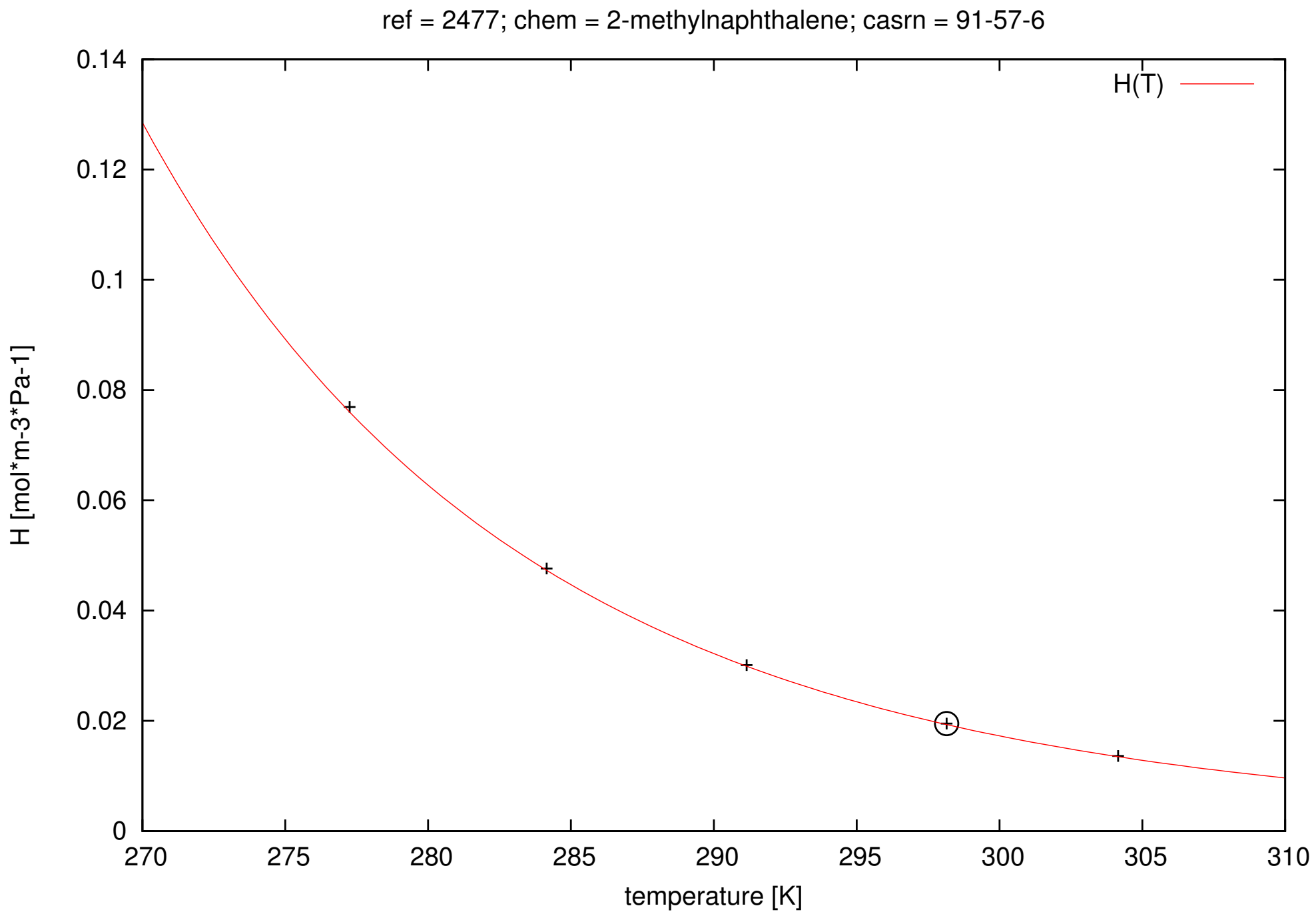

ref = 2477; chem = 1-methylphenanthrene; casrn = 832-69-9
H(T)
H [mol*m-3*Pa-1]
temperature [K]
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
270
275
280
285
290
295
300
305
310

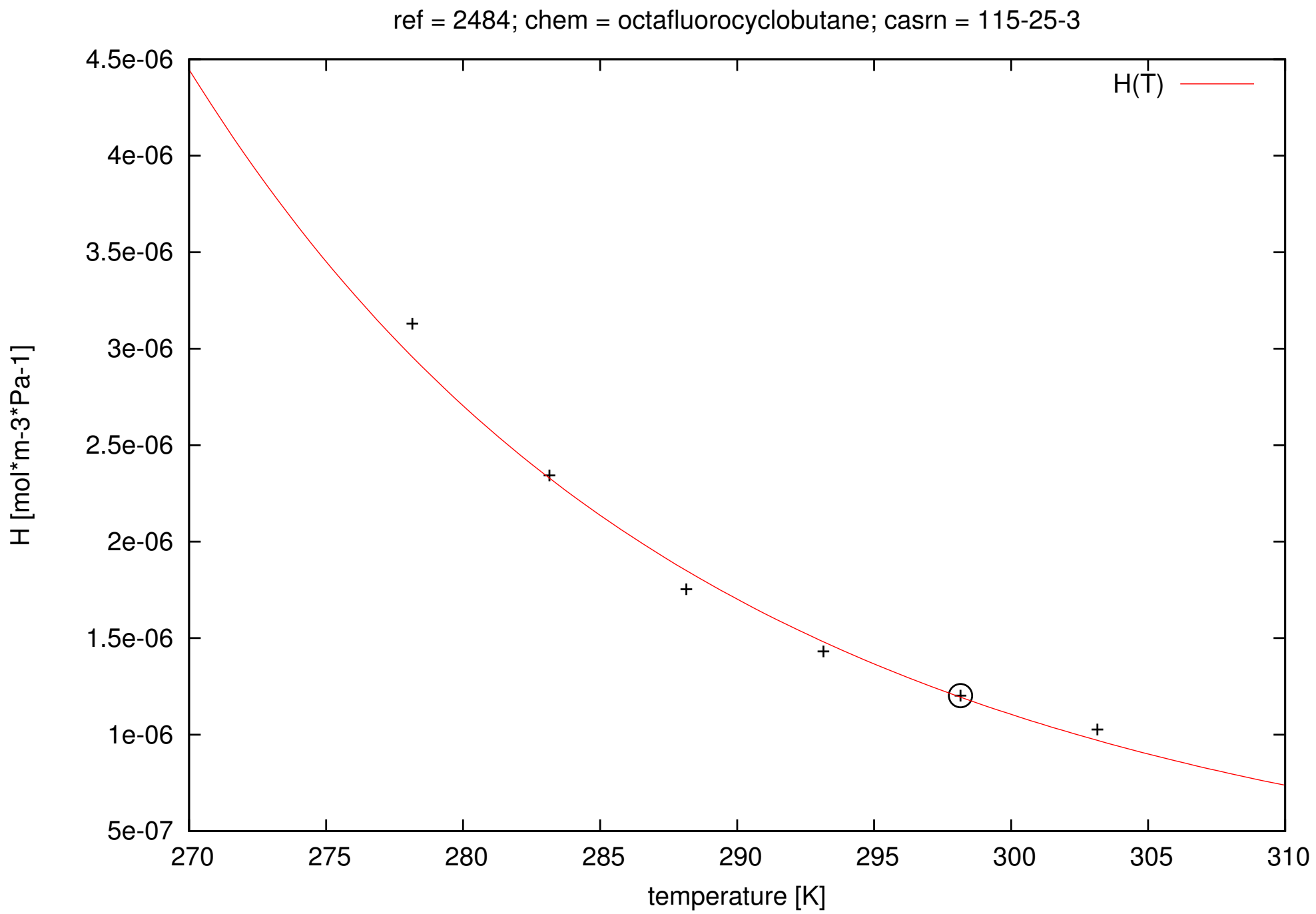

ref = 2477; chem = acenaphthene; casrn = 83-32-9
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.6
0.5
0.4
0.3
0.2
0.1
0
270
275
280
285
290
295
300
305
310

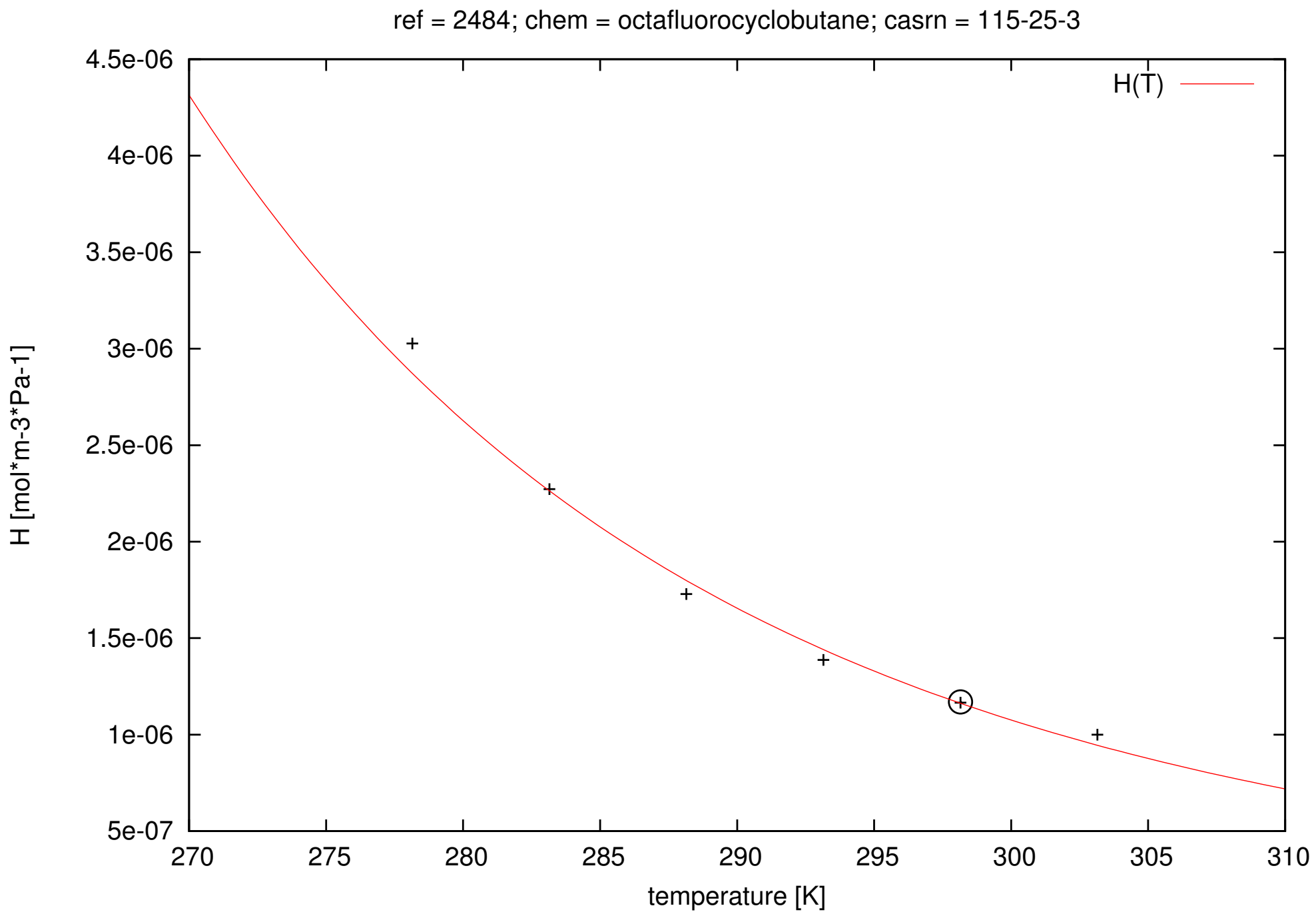

ref = 2477; chem = phenanthrene; casrn = 85-01-8
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
270
275
280
285
290
295
300
305
310

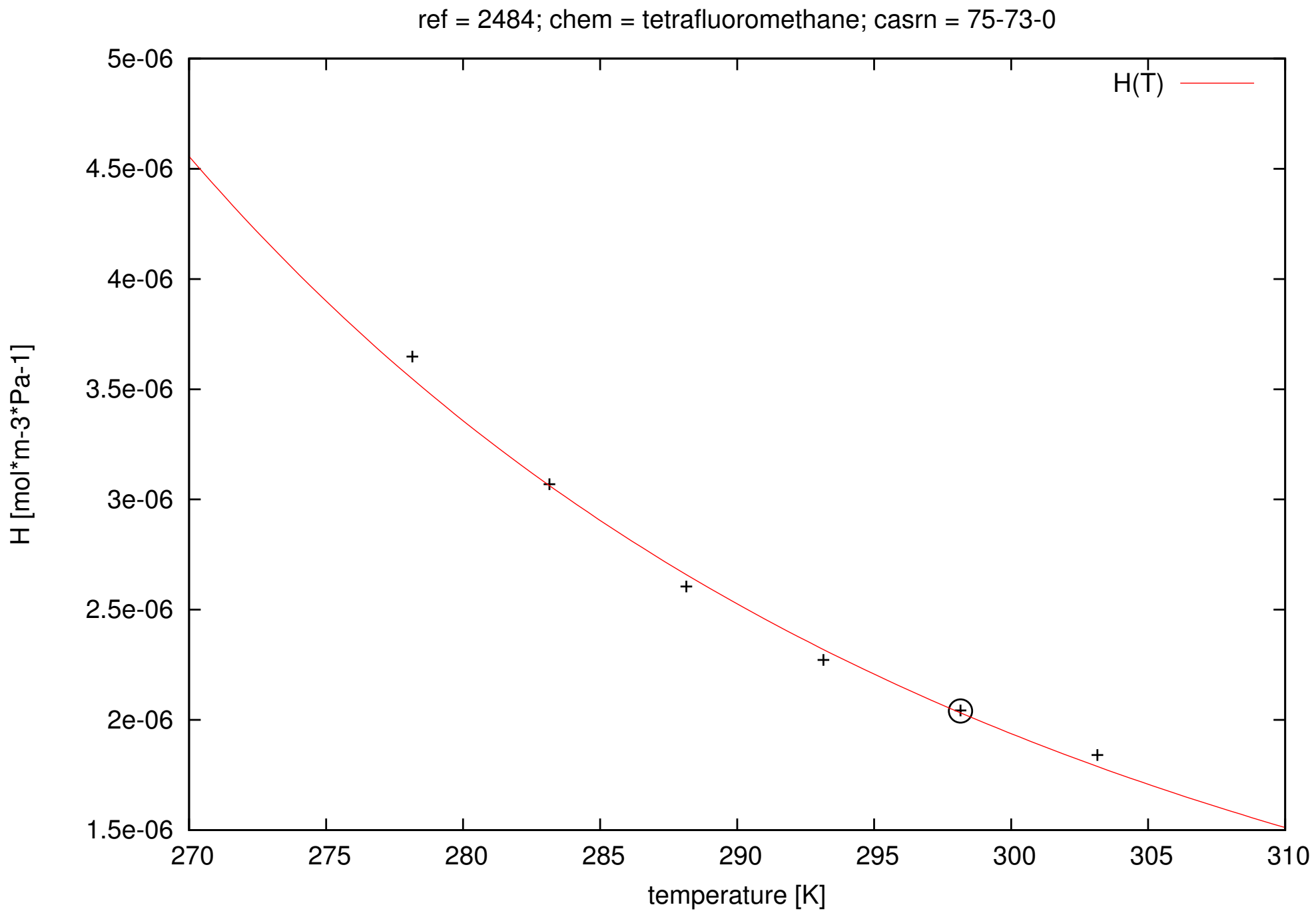

ref = 2477; chem = 2,3-benzindene; casrn = 86-73-7
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
270
275
280
285
290
295
300
305
310

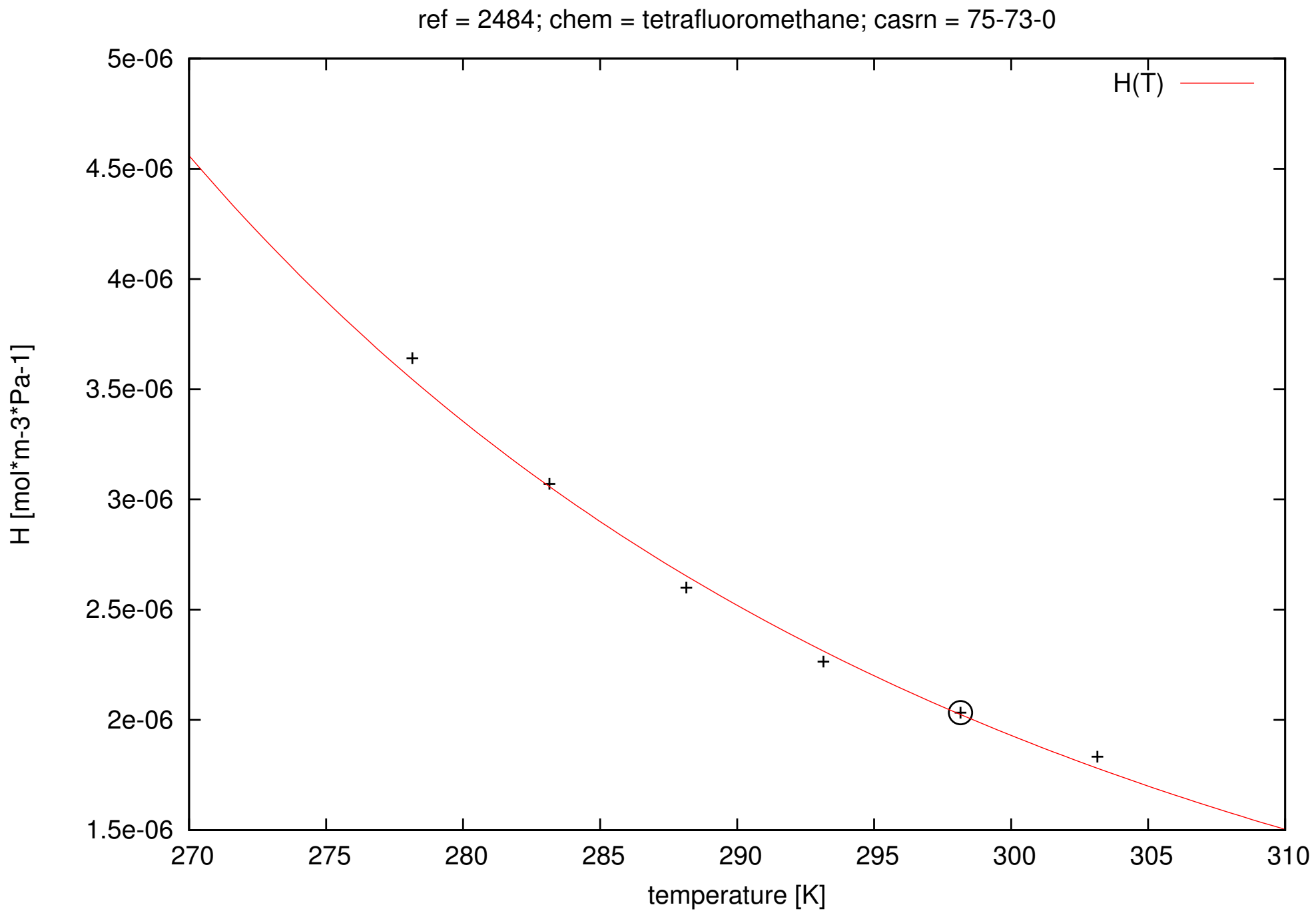

ref = 2477; chem = 1-methylnaphthalene; casrn = 90-12-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
270
275
280
285
290
295
300
305
310

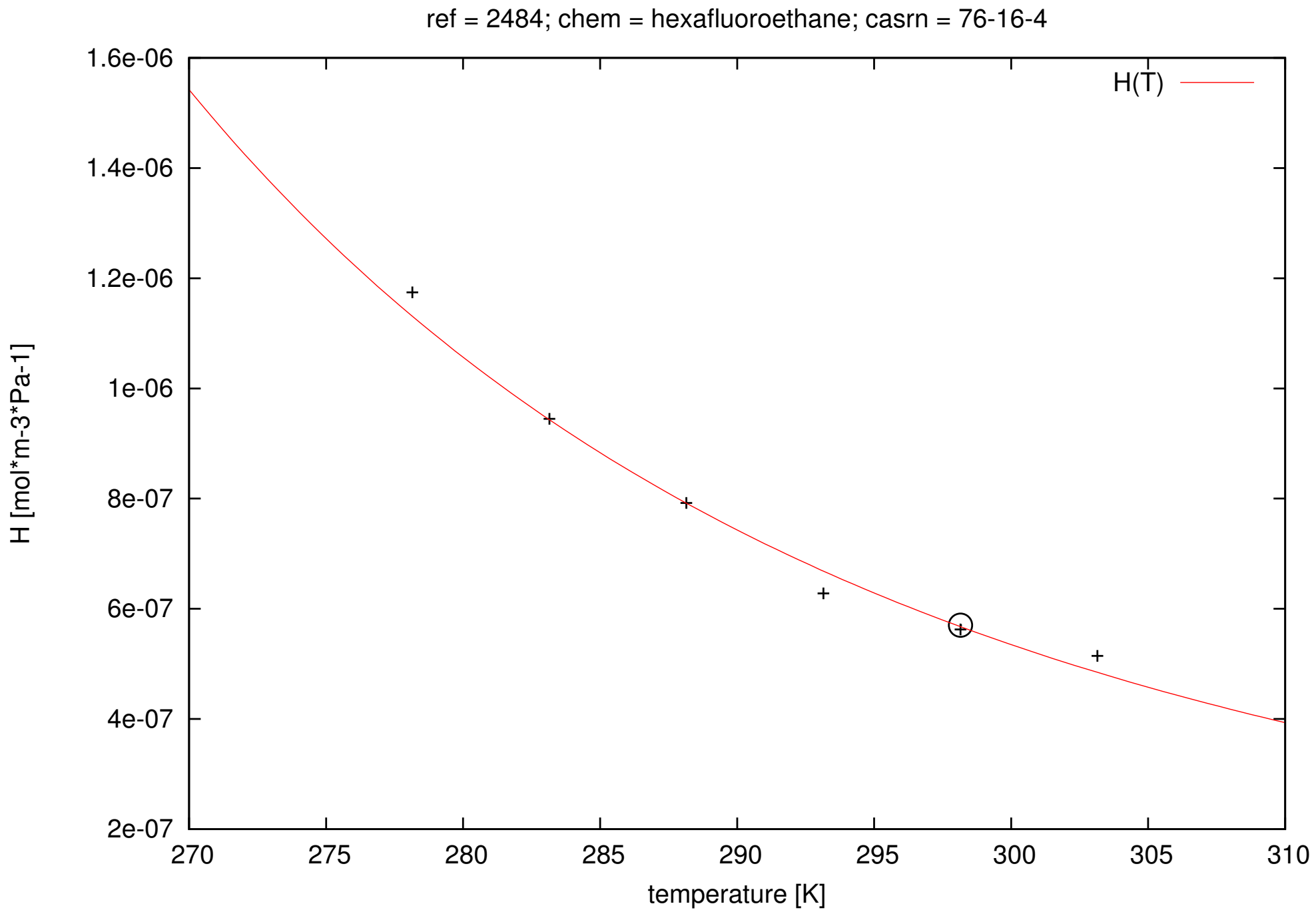

ref = 2477; chem = 2-methylnaphthalene; casrn = 91-57-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
270
275
280
285
290
295
300
305
310

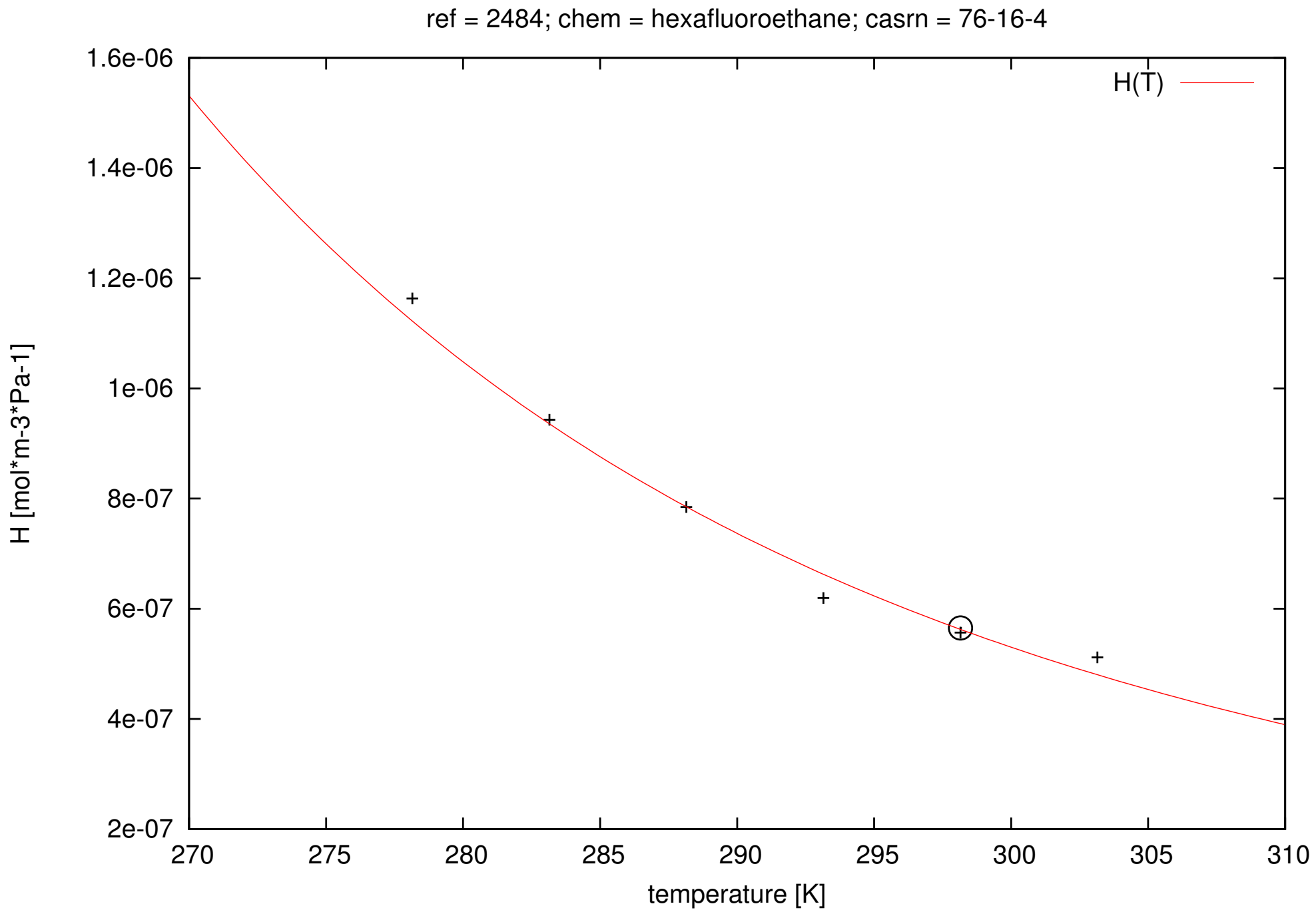

ref = 2484; chem = octafluorocyclobutane; casrn = 115-25-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
4.5e-06
4e-06
3.5e-06
3e-06
2.5e-06
2e-06
1.5e-06
1e-06
5e-07
270
275
280
285
290
295
300
305
310

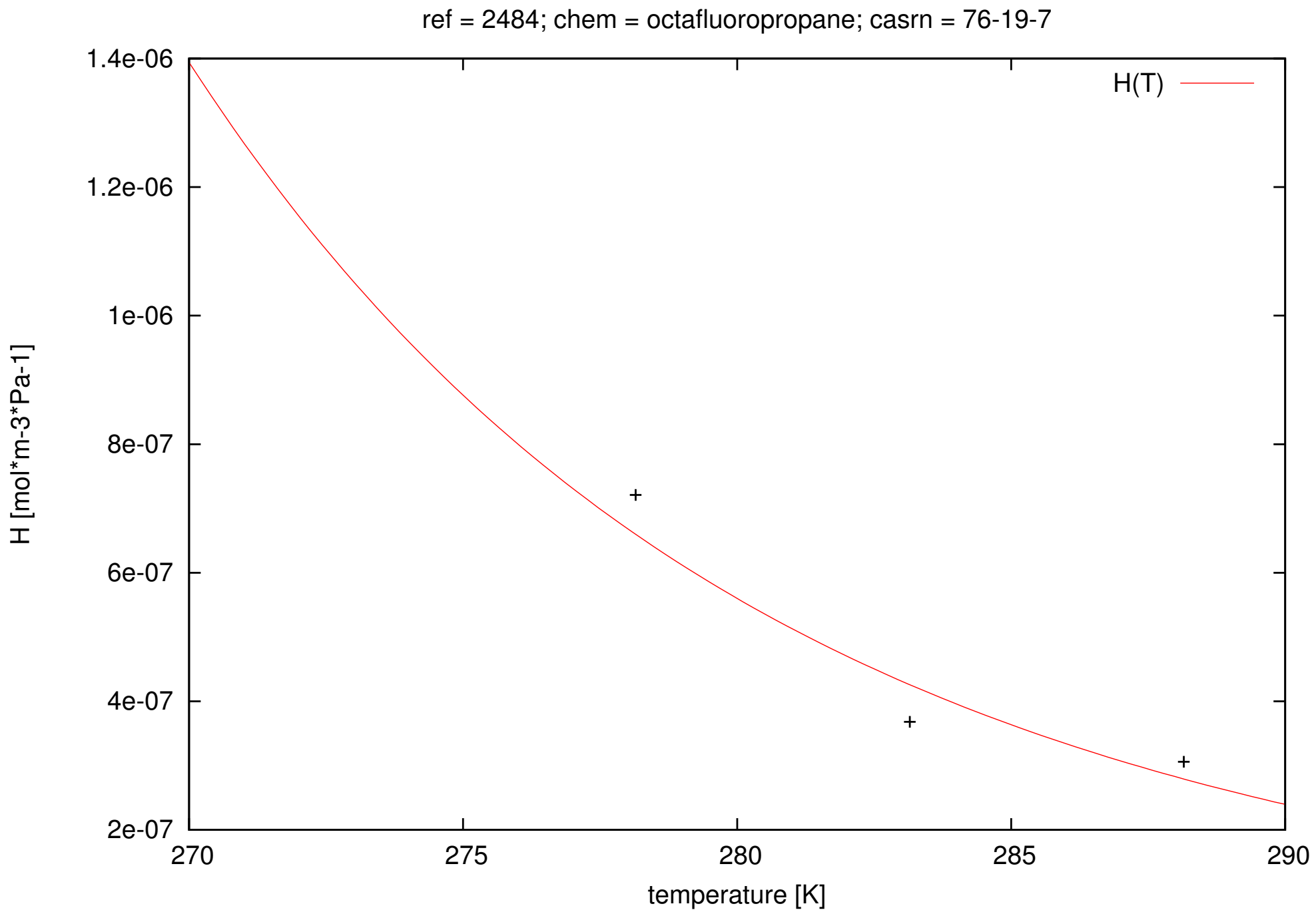

ref = 2484; chem = octafluorocyclobutane; casrn = 115-25-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
4.5e-06
4e-06
3.5e-06
3e-06
2.5e-06
2e-06
1.5e-06
1e-06
5e-07
270
275
280
285
290
295
300
305
310

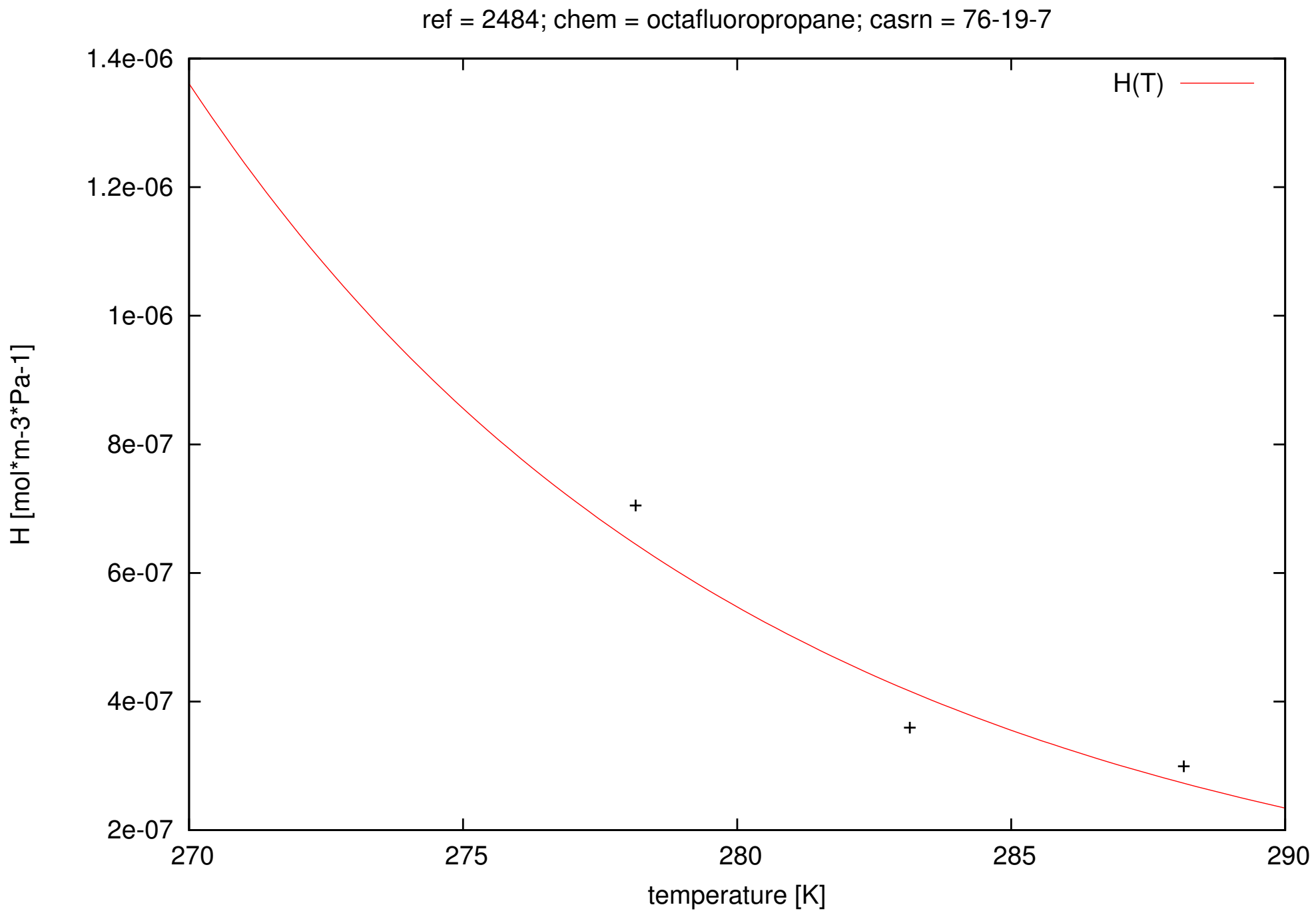

ref = 2484; chem = tetrafluoromethane; casrn = 75-73-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
5e-06
4.5e-06
4e-06
3.5e-06
3e-06
2.5e-06
2e-06
1.5e-06
270
275
280
285
290
295
300
305
310

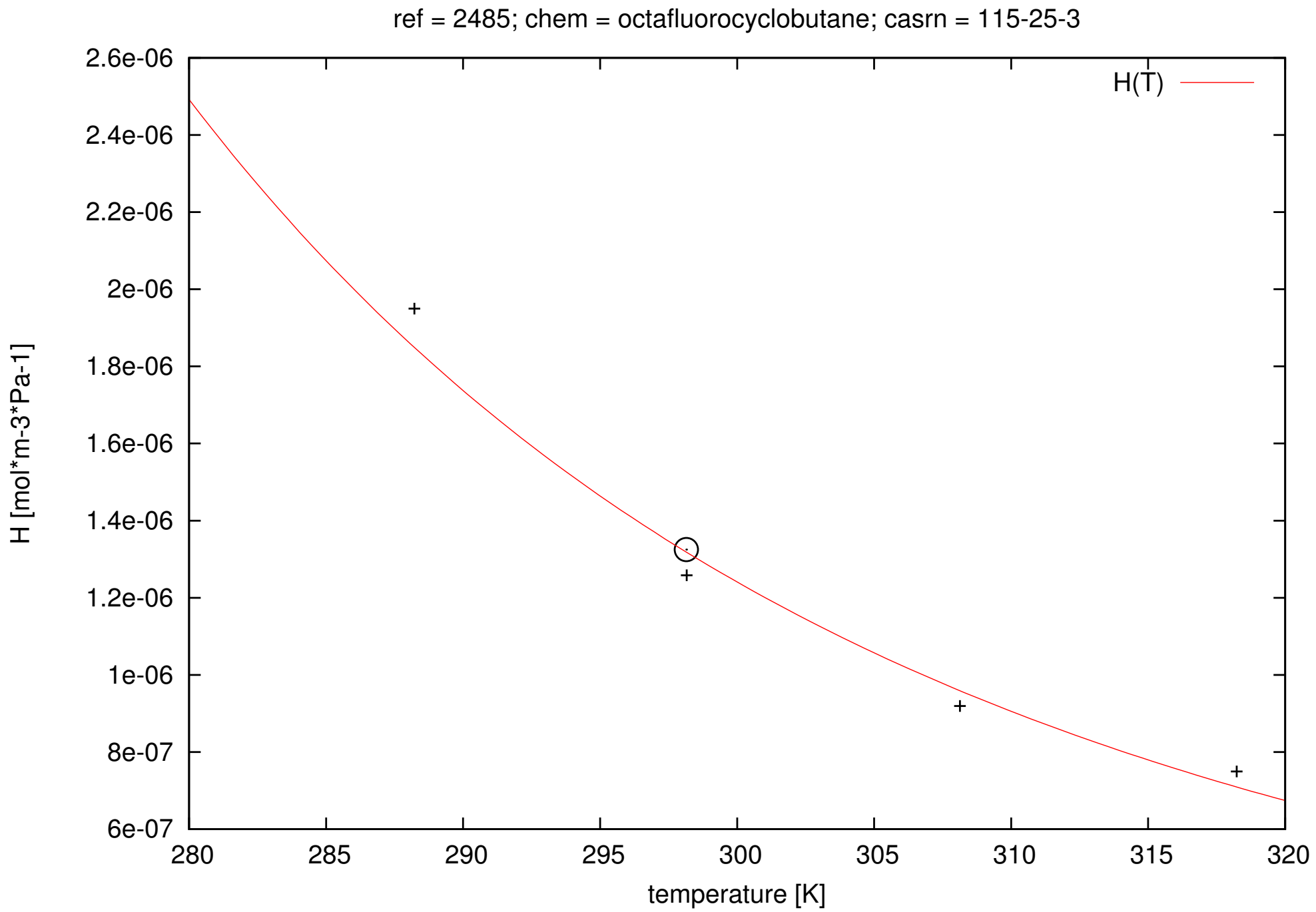

ref = 2484; chem = tetrafluoromethane; casrn = 75-73-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
5e-06
4.5e-06
4e-06
3.5e-06
3e-06
2.5e-06
2e-06
1.5e-06
270
275
280
285
290
295
300
305
310

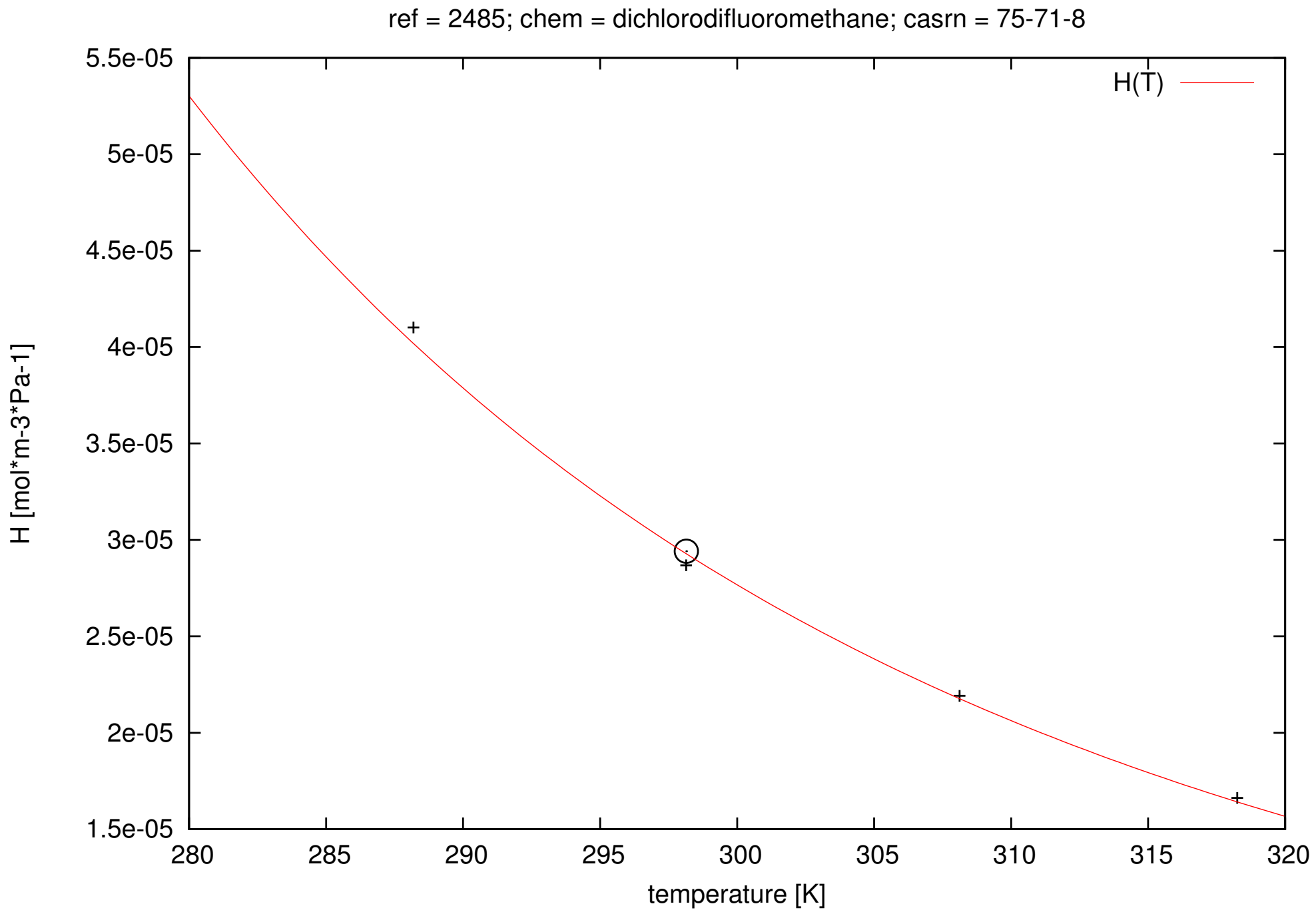

ref = 2484; chem = hexafluoroethane; casrn = 76-16-4
H(T)
H [mol*m-3*Pa-1]
temperature [K]
1.6e-06
1.4e-06
1.2e-06
1e-06
8e-07
6e-07
4e-07
2e-07
270
275
280
285
290
295
300
305
310

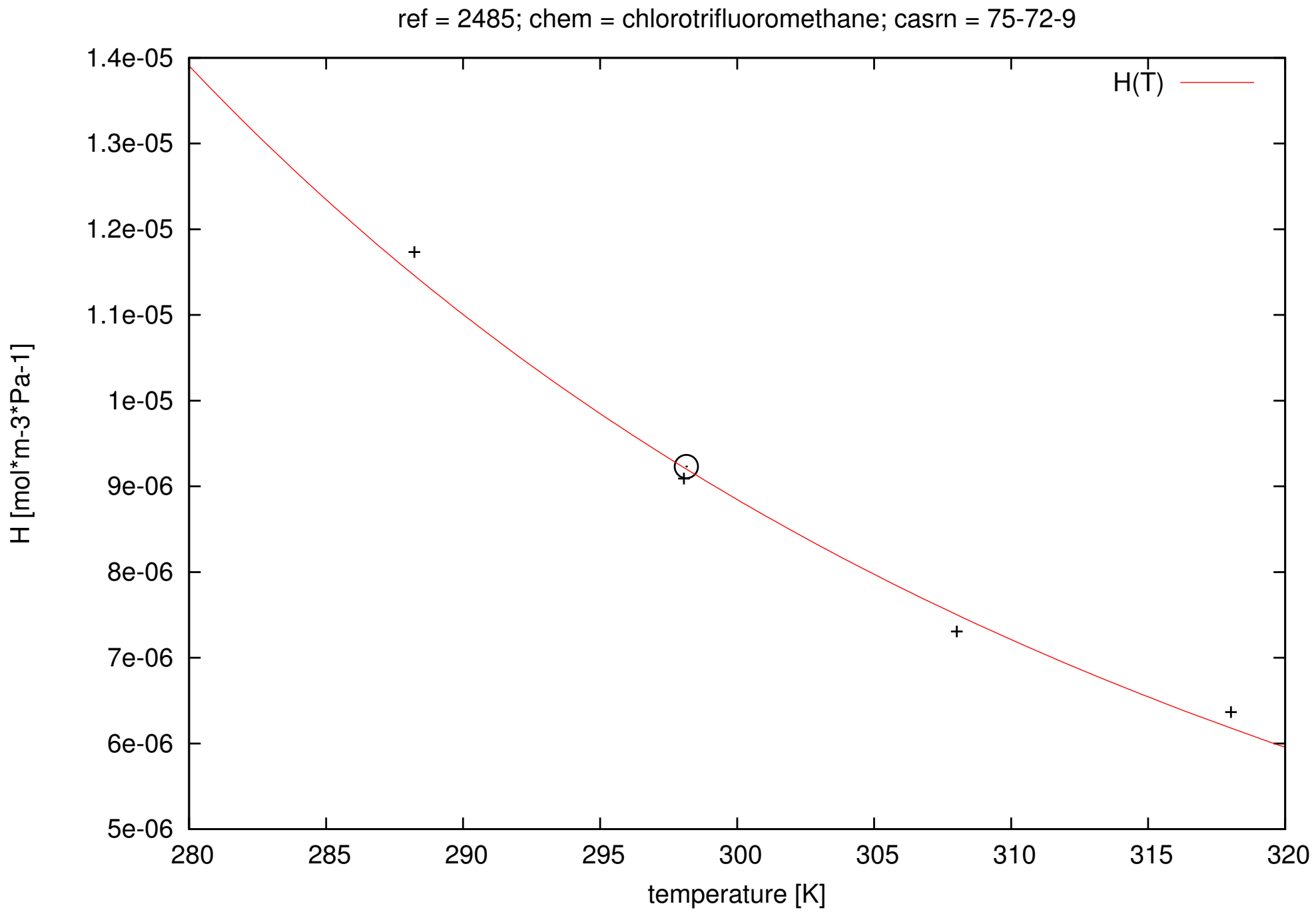

ref = 2484; chem = hexafluoroethane; casrn = 76-16-4
H(T)
H [mol*m-3*Pa-1]
temperature [K]
1.6e-06
1.4e-06
1.2e-06
1e-06
8e-07
6e-07
4e-07
2e-07
270
275
280
285
290
295
300
305
310

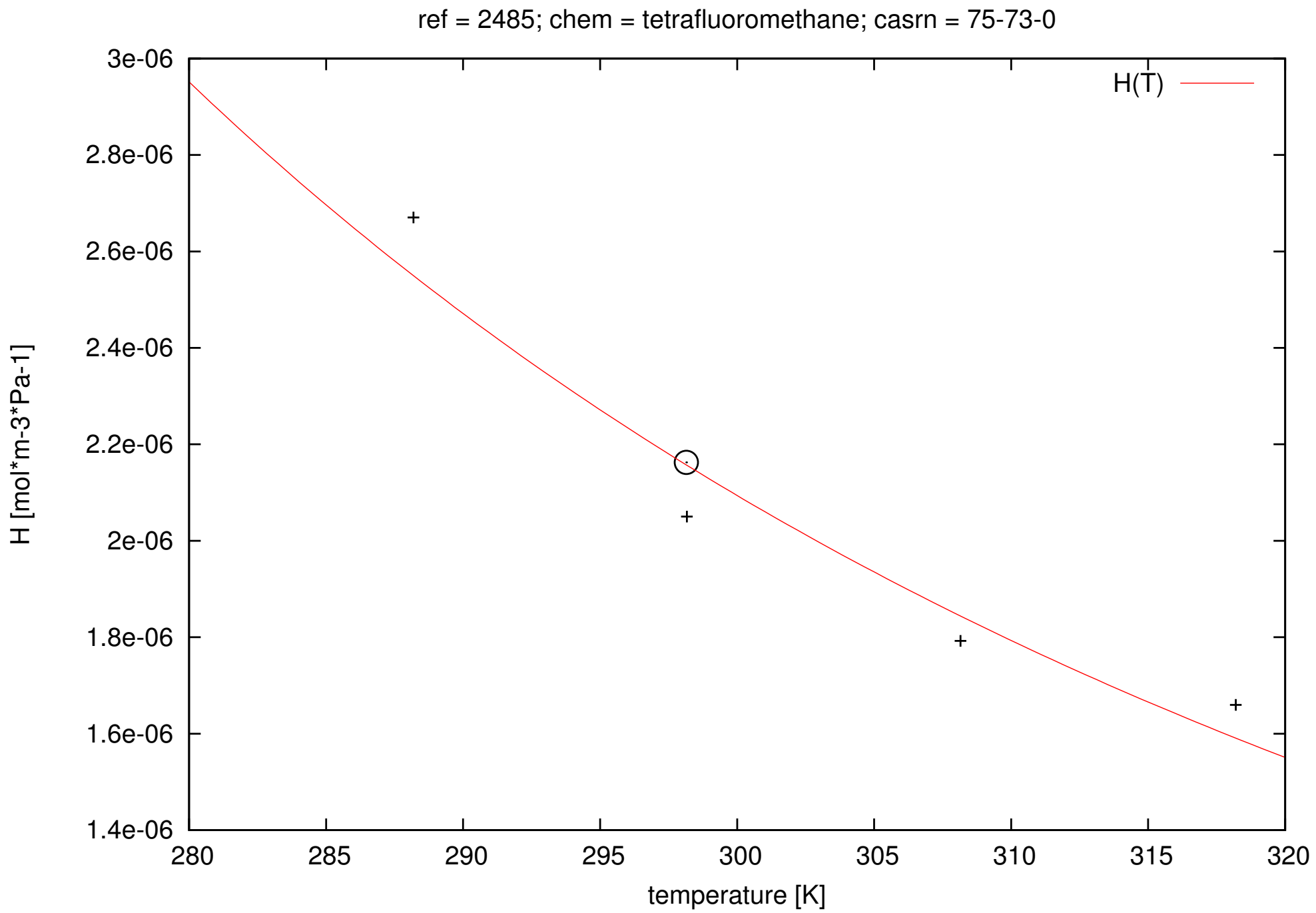

ref = 2484; chem = octafluoropropane; casrn = 76-19-7
H(T)
H [mol*m-3*Pa-1]
temperature [K]
1.4e-06
1.2e-06
1e-06
8e-07
6e-07
4e-07
2e-07
270
275
280
285
290

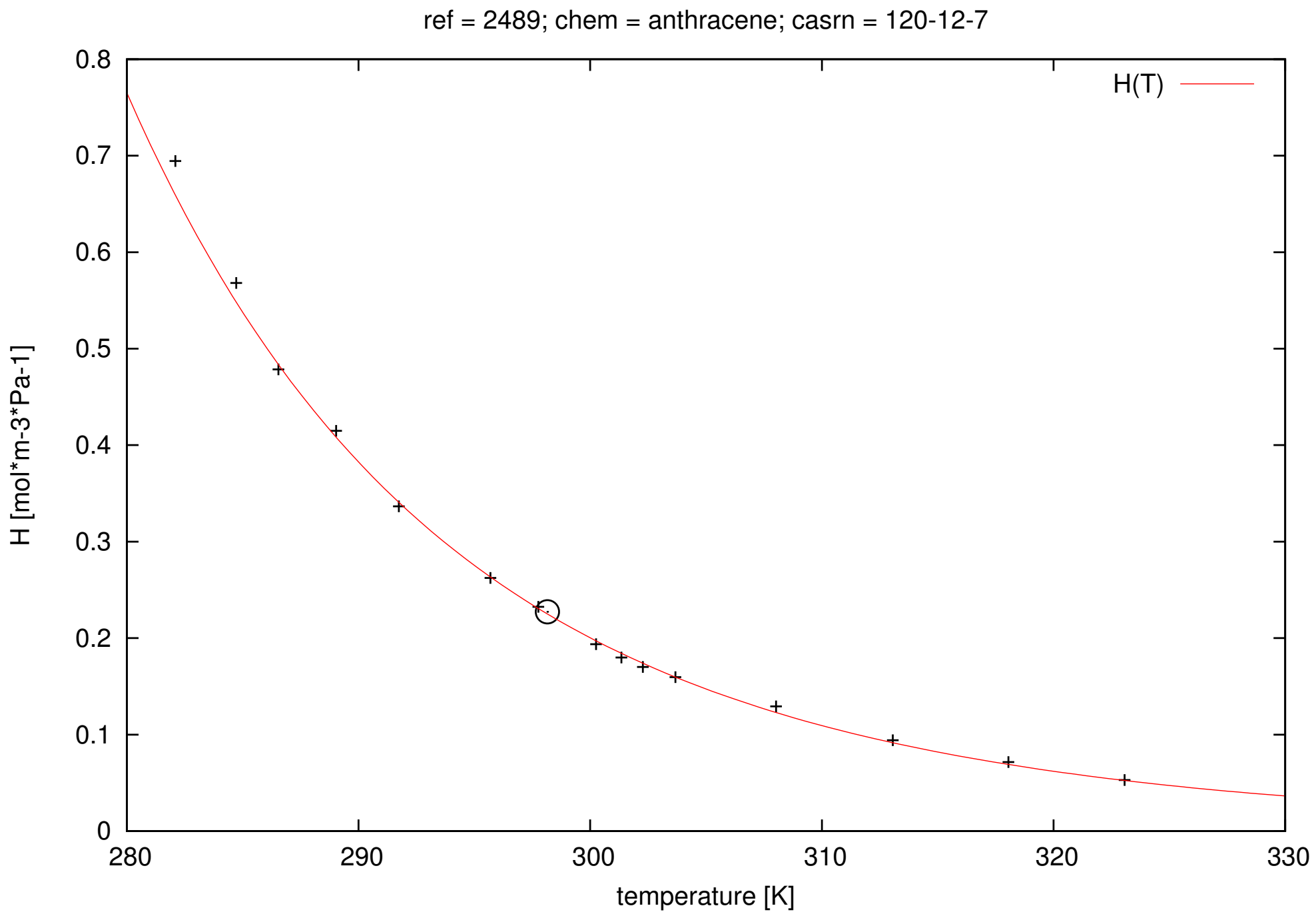

ref = 2484; chem = octafluoropropane; casrn = 76-19-7
H(T)
H [mol*m-3*Pa-1]
temperature [K]
1.4e-06
1.2e-06
1e-06
8e-07
6e-07
4e-07
2e-07
270
275
280
285
290

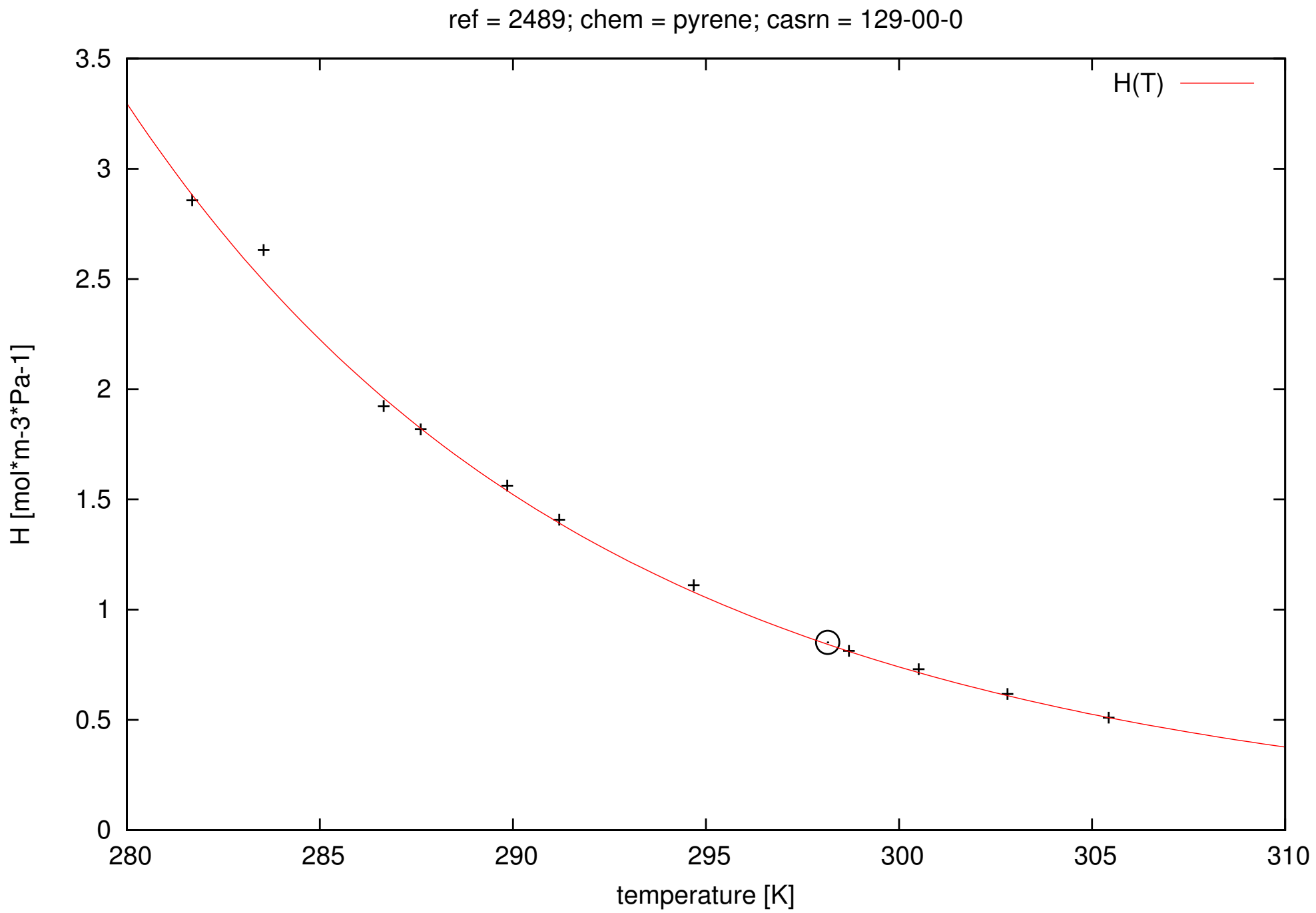

ref = 2485; chem = octafluorocyclobutane; casrn = 115-25-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
2.6e-06
2.4e-06
2.2e-06
2e-06
1.8e-06
1.6e-06
1.4e-06
1.2e-06
1e-06
8e-07
6e-07
280
285
290
295
300
305
310
315
320

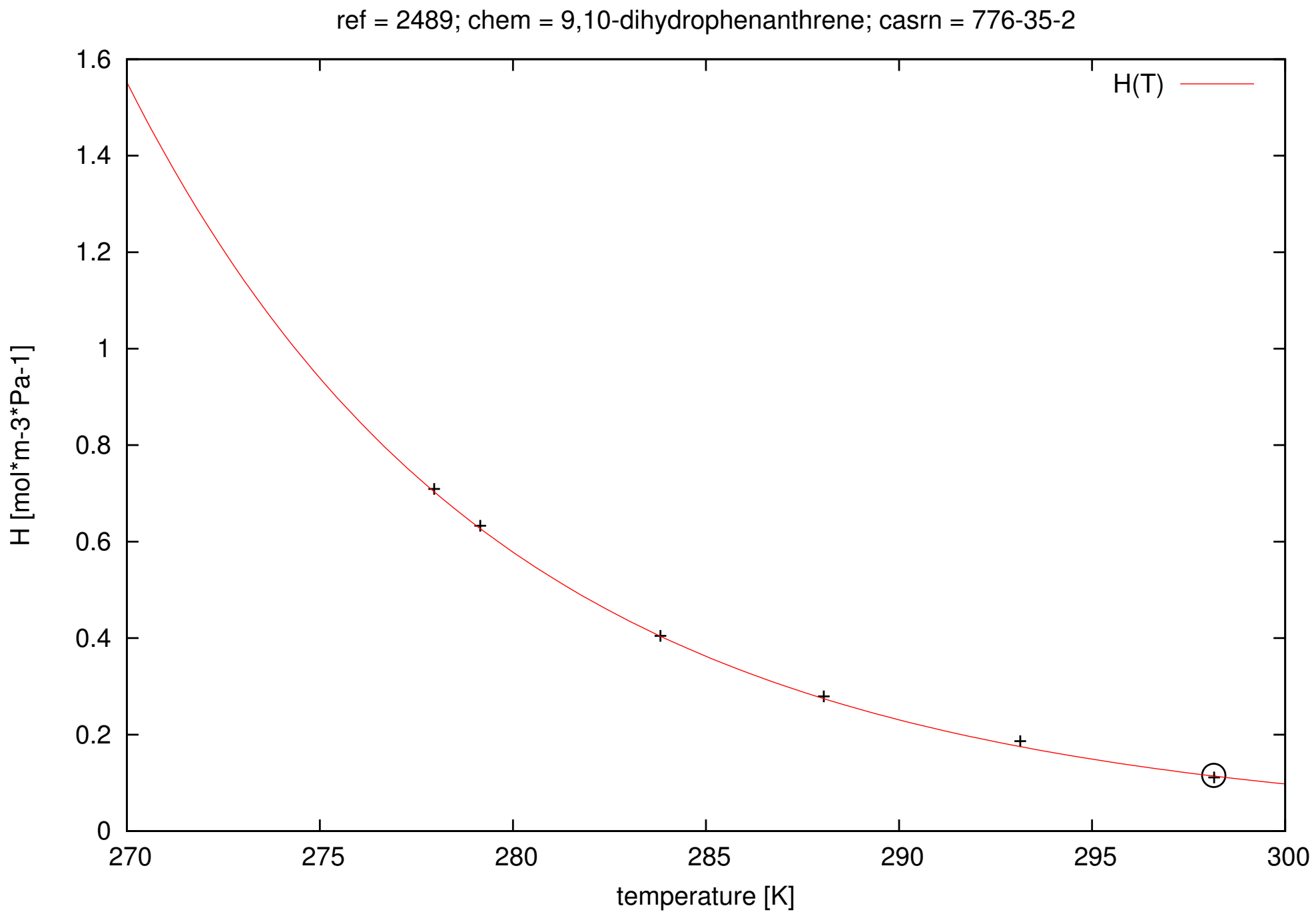

ref = 2485; chem = dichlorodifluoromethane; casrn = 75-71-8
H(T)
H [mol*m-3*Pa-1]
temperature [K]
5.5e-05
5e-05
4.5e-05
4e-05
3.5e-05
3e-05
2.5e-05
2e-05
1.5e-05
280
285
290
295
300
305
310
315
320

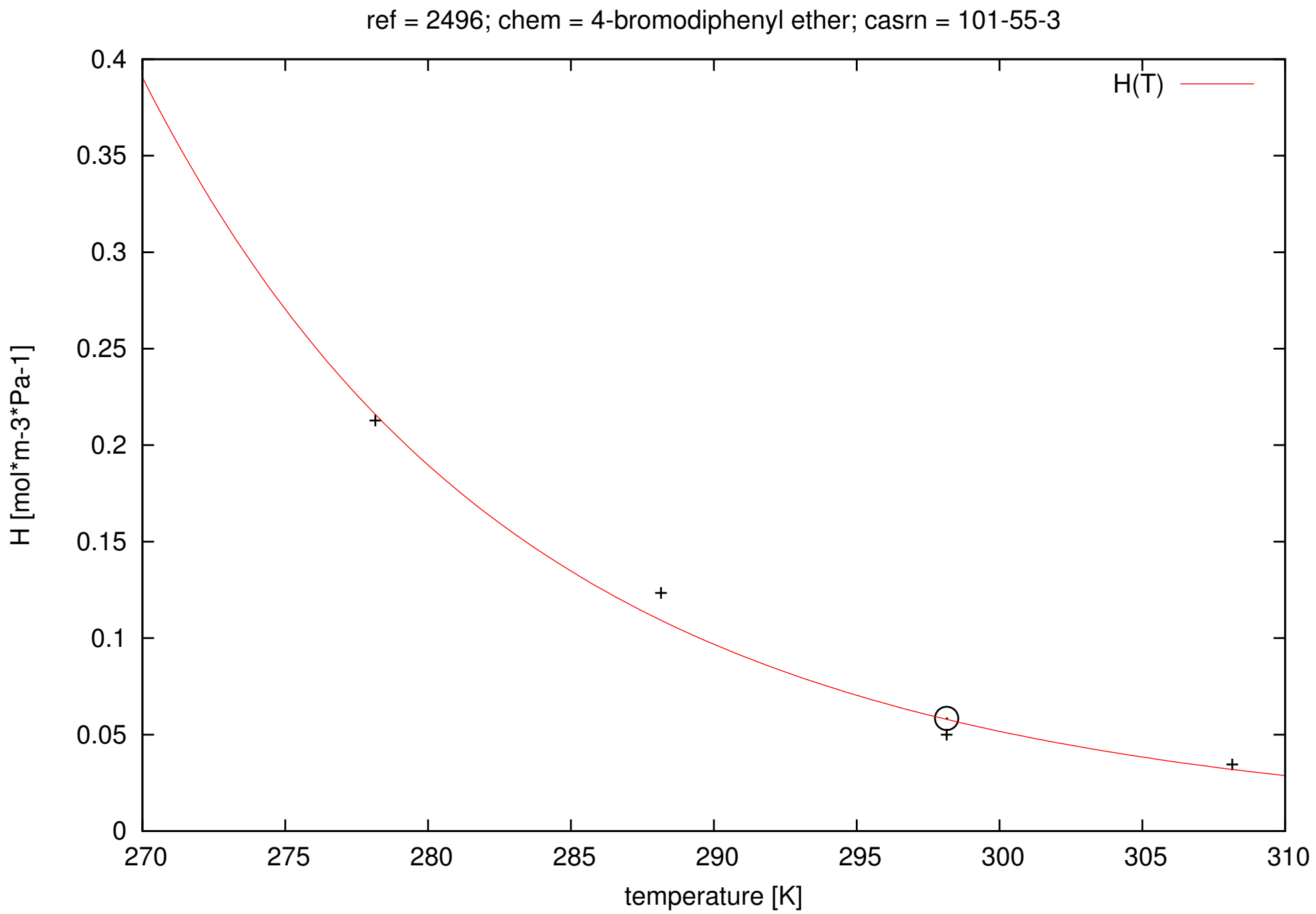

ref = 2485; chem = chlorotrifluoromethane; casrn = 75-72-9
H(T)
H [mol*m-3*Pa-1]
temperature [K]
1.4e-05
1.3e-05
1.2e-05
1.1e-05
1e-05
9e-06
8e-06
7e-06
6e-06
5e-06
280
285
290
295
300
305
310
315
320

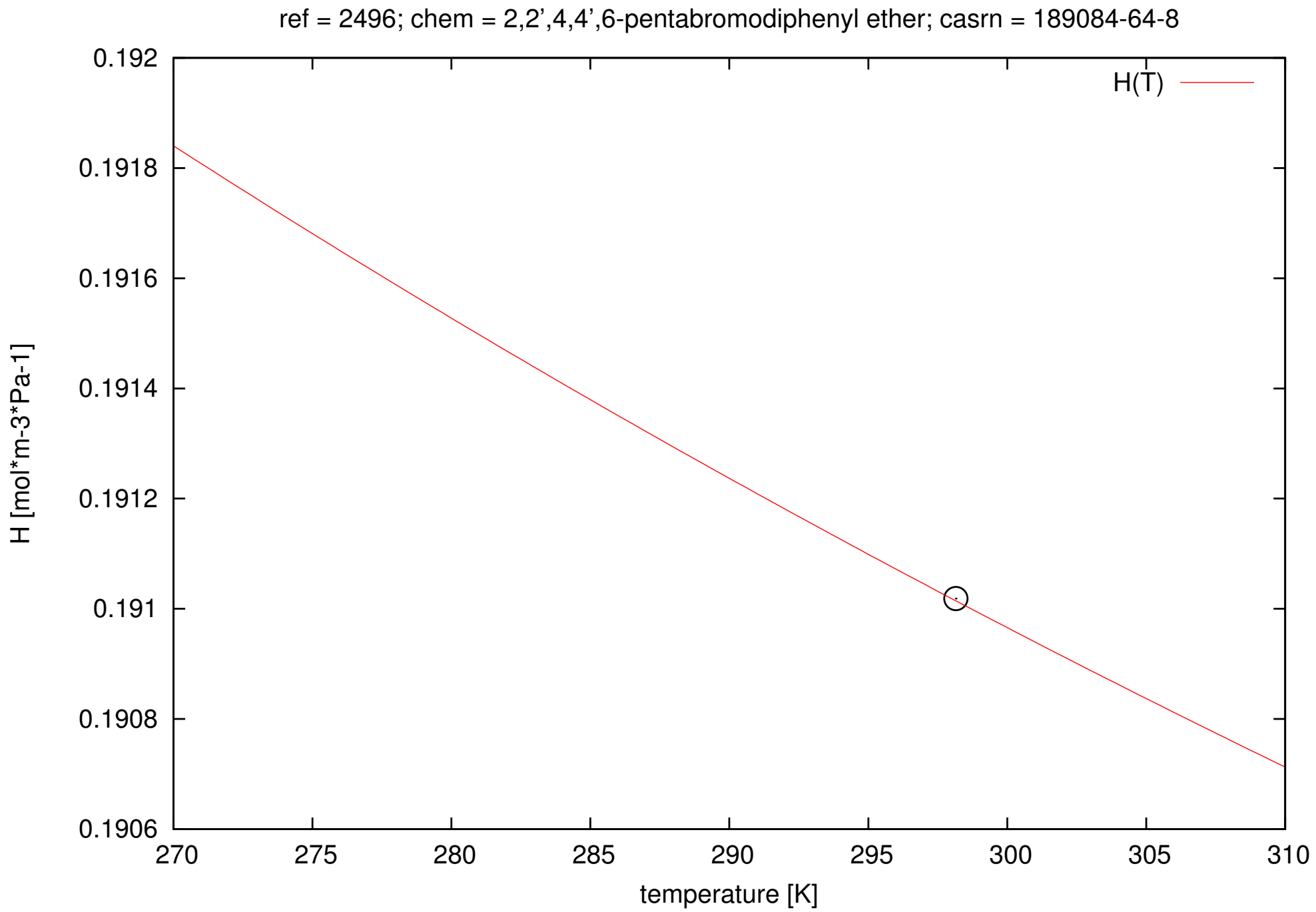

ref = 2485; chem = tetrafluoromethane; casrn = 75-73-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
3e-06
2.8e-06
2.6e-06
2.4e-06
2.2e-06
2e-06
1.8e-06
1.6e-06
1.4e-06
280
285
290
295
300
305
310
315
320

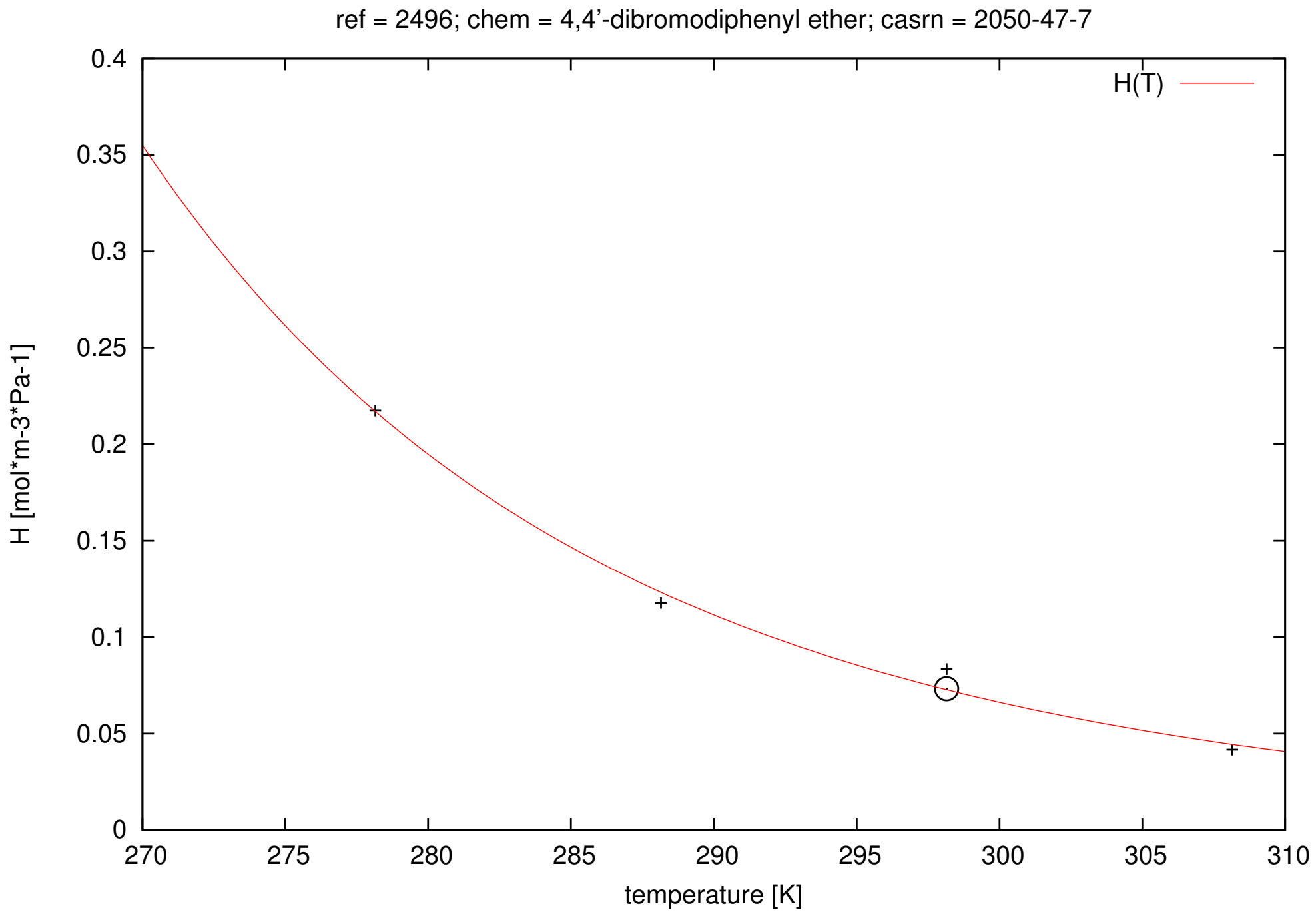

ref = 2489; chem = anthracene; casrn = 120-12-7
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
280
290
300
310
320
330

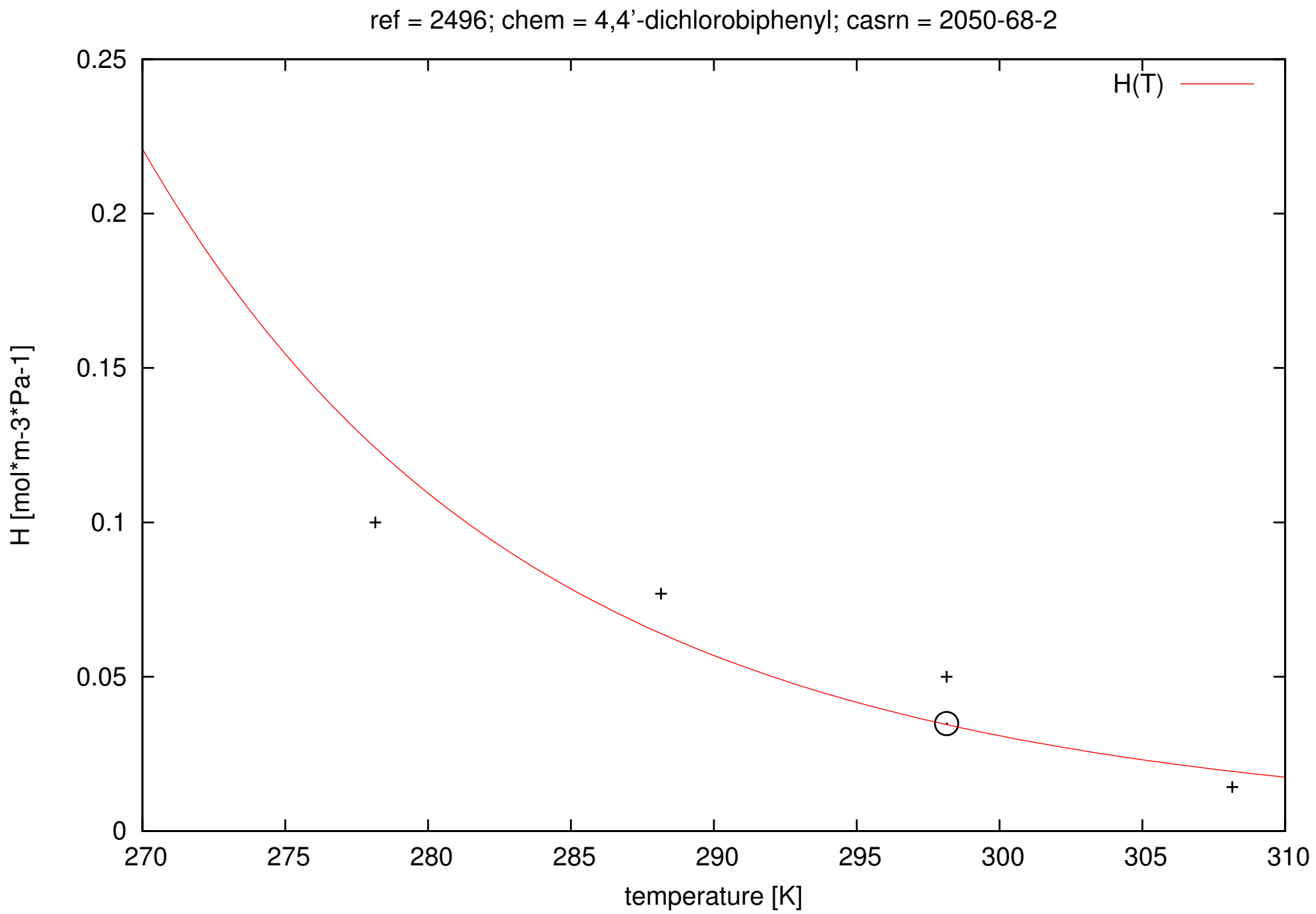

ref = 2489; chem = pyrene; casrn = 129-00-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
3.5
3
2.5
2
1.5
1
0.5
0
280
285
290
295
300
305
310

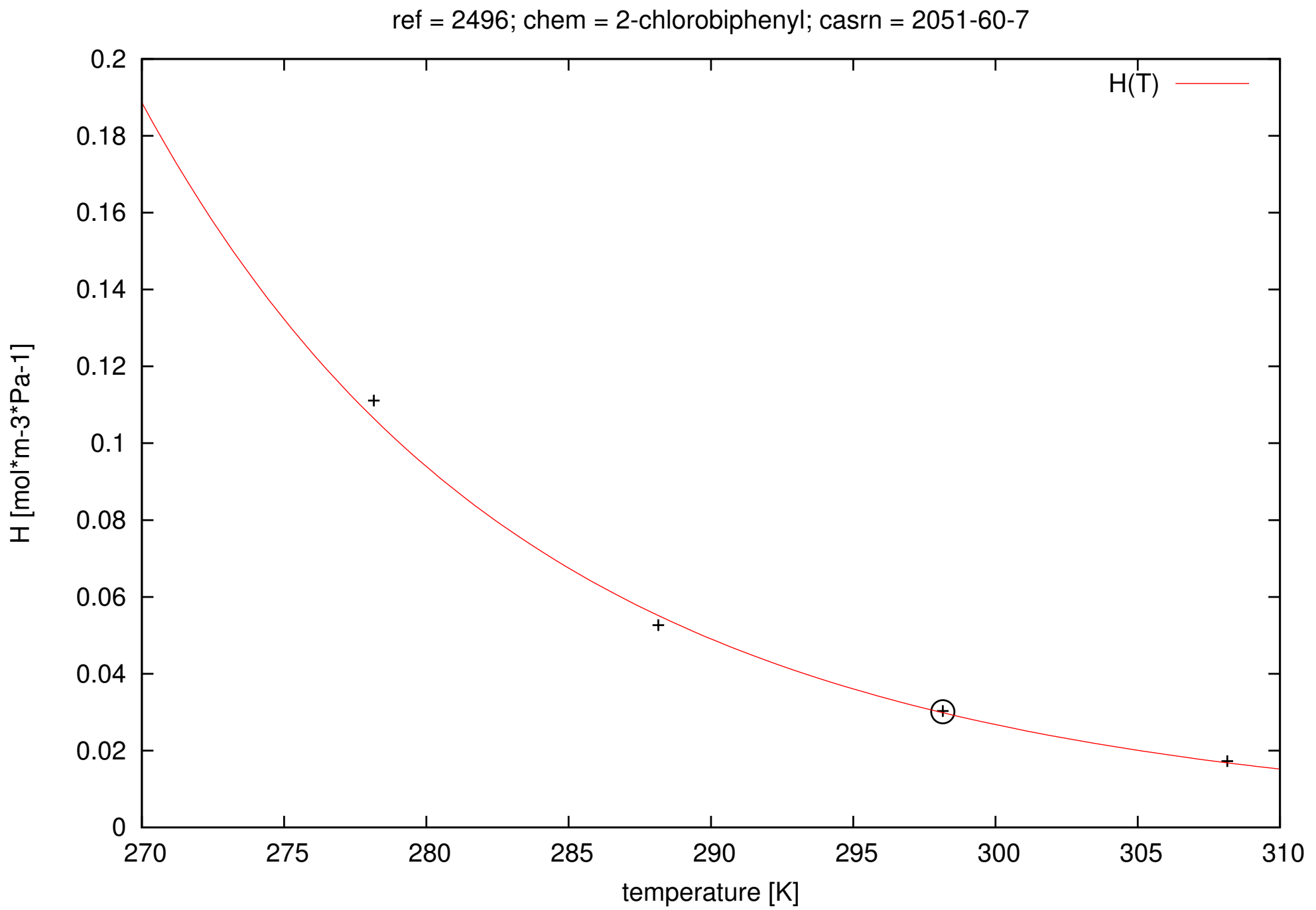

ref = 2489; chem = 9,10-dihydrophenanthrene; casrn = 776-35-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
270
275
280
285
290
295
300

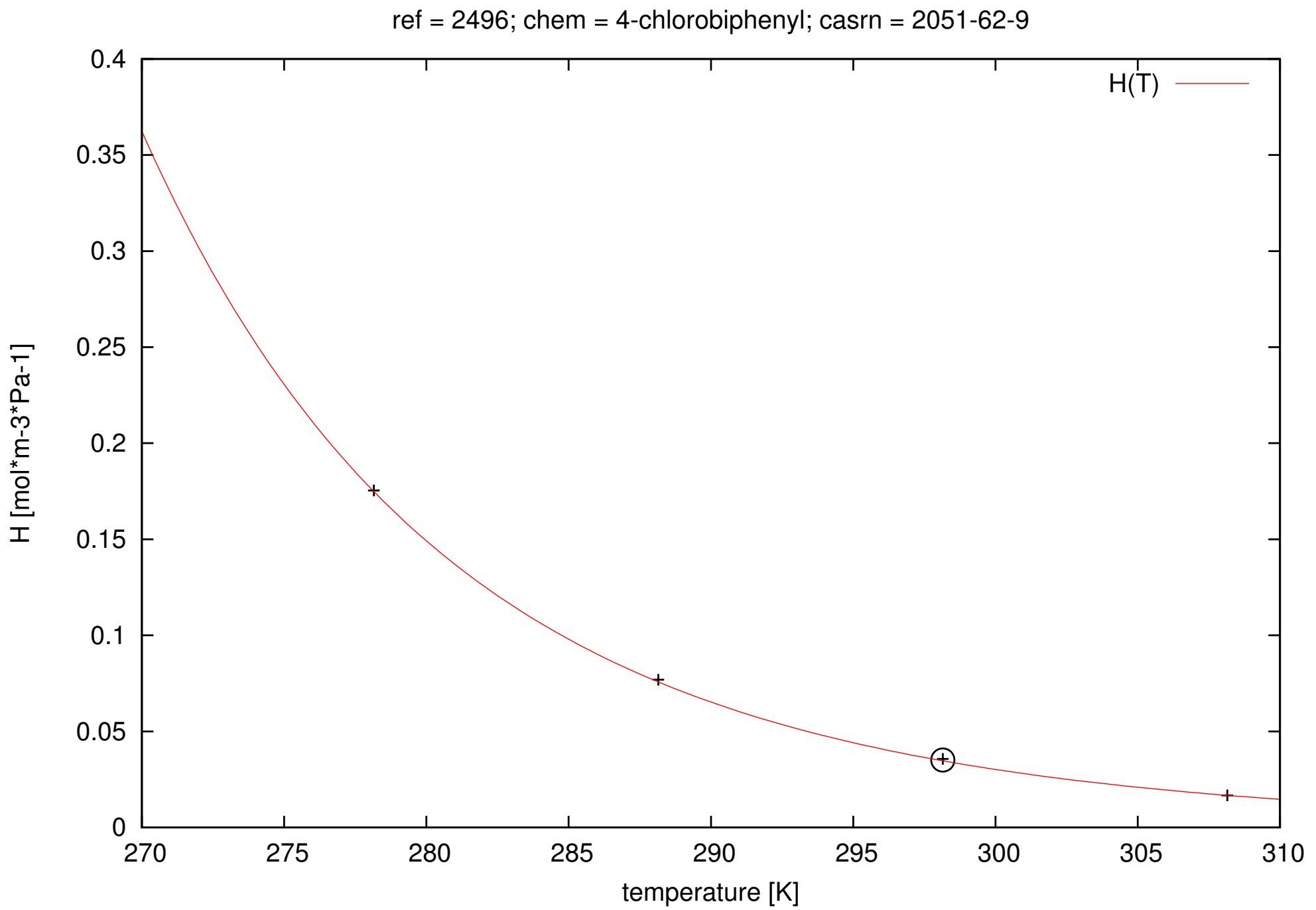

ref = 2496; chem = 4-bromodiphenyl ether; casrn = 101-55-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
270
275
280
285
290
295
300
305
310

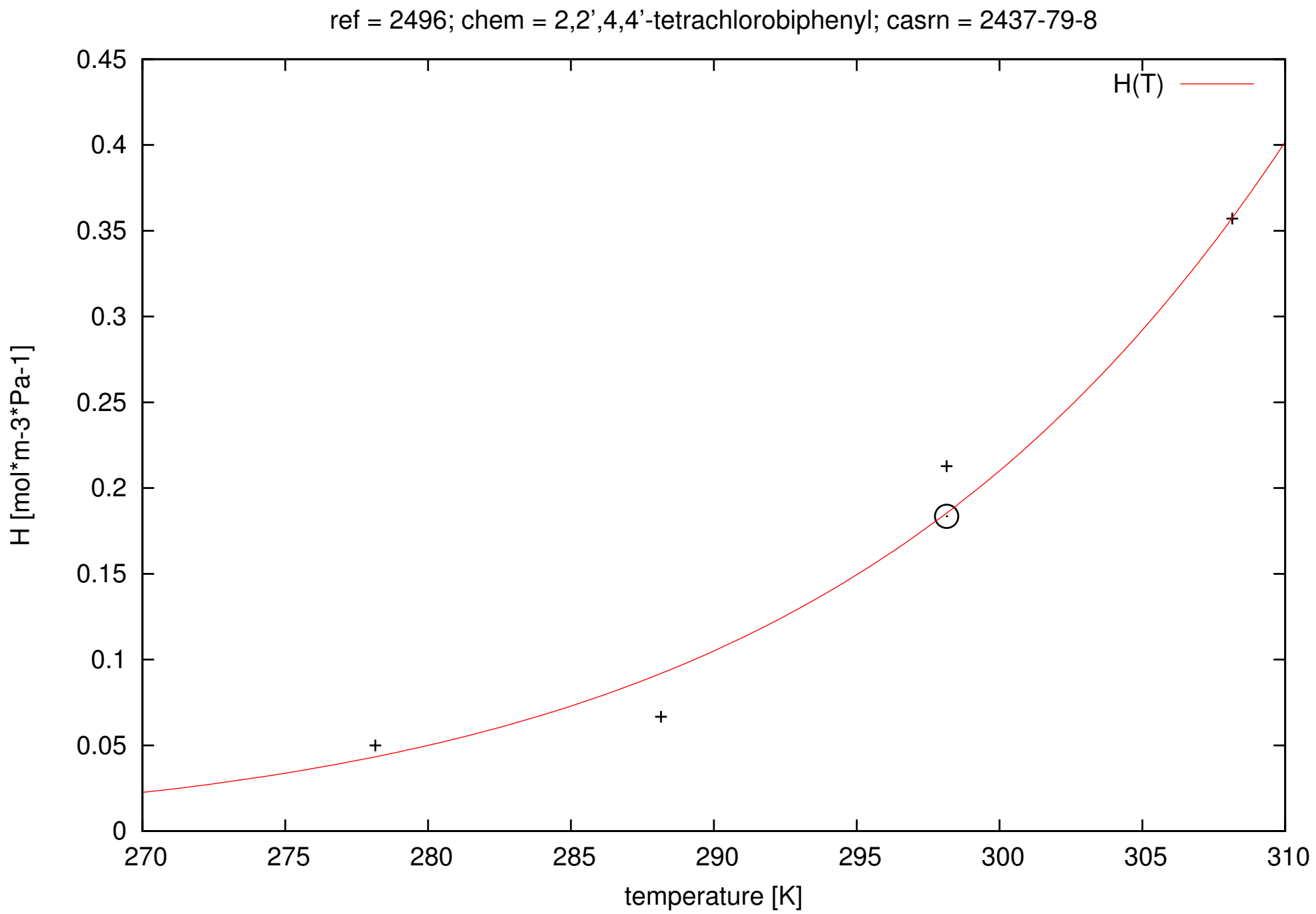

ref = 2496; chem = 2,2',4,4',6-pentabromodiphenyl ether; casrn = 189084-64-8
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.192
0.1918
0.1916
0.1914
0.1912
0.191
0.1908
0.1906
270
275
280
285
290
295
300
305
310


ref = 2496; chem = 4,4'-dibromodiphenyl ether; casrn = 2050-47-7
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
270
275
280
285
290
295
300
305
310

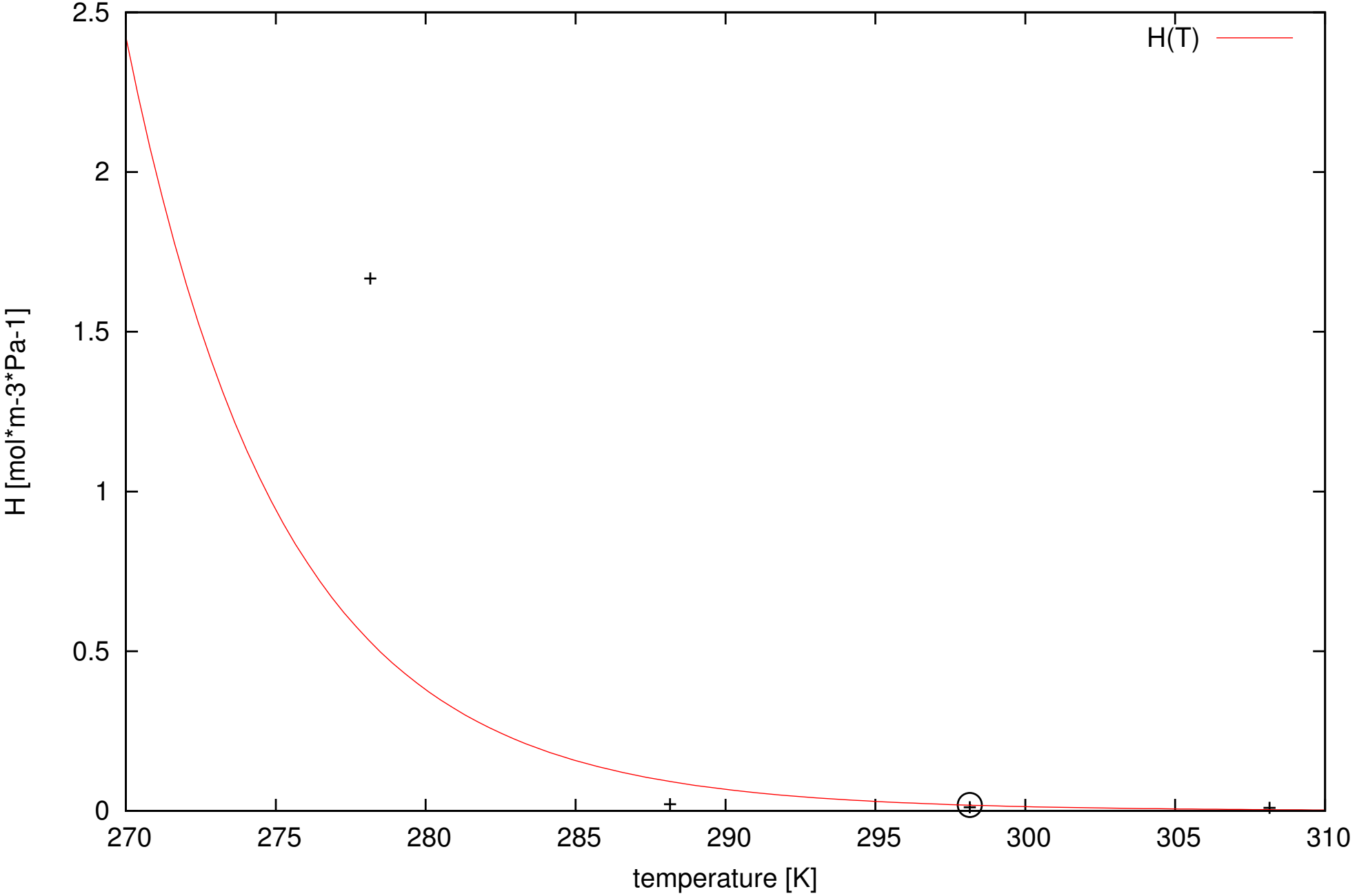

ref = 2496; chem = 4,4'-dichlorobiphenyl; casrn = 2050-68-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.25
0.2
0.15
0.1
0.05
0
270
275
280
285
290
295
300
305
310


ref = 2496; chem = 2-chlorobiphenyl; casrn = 2051-60-7
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
270
275
280
285
290
295
300
305
310

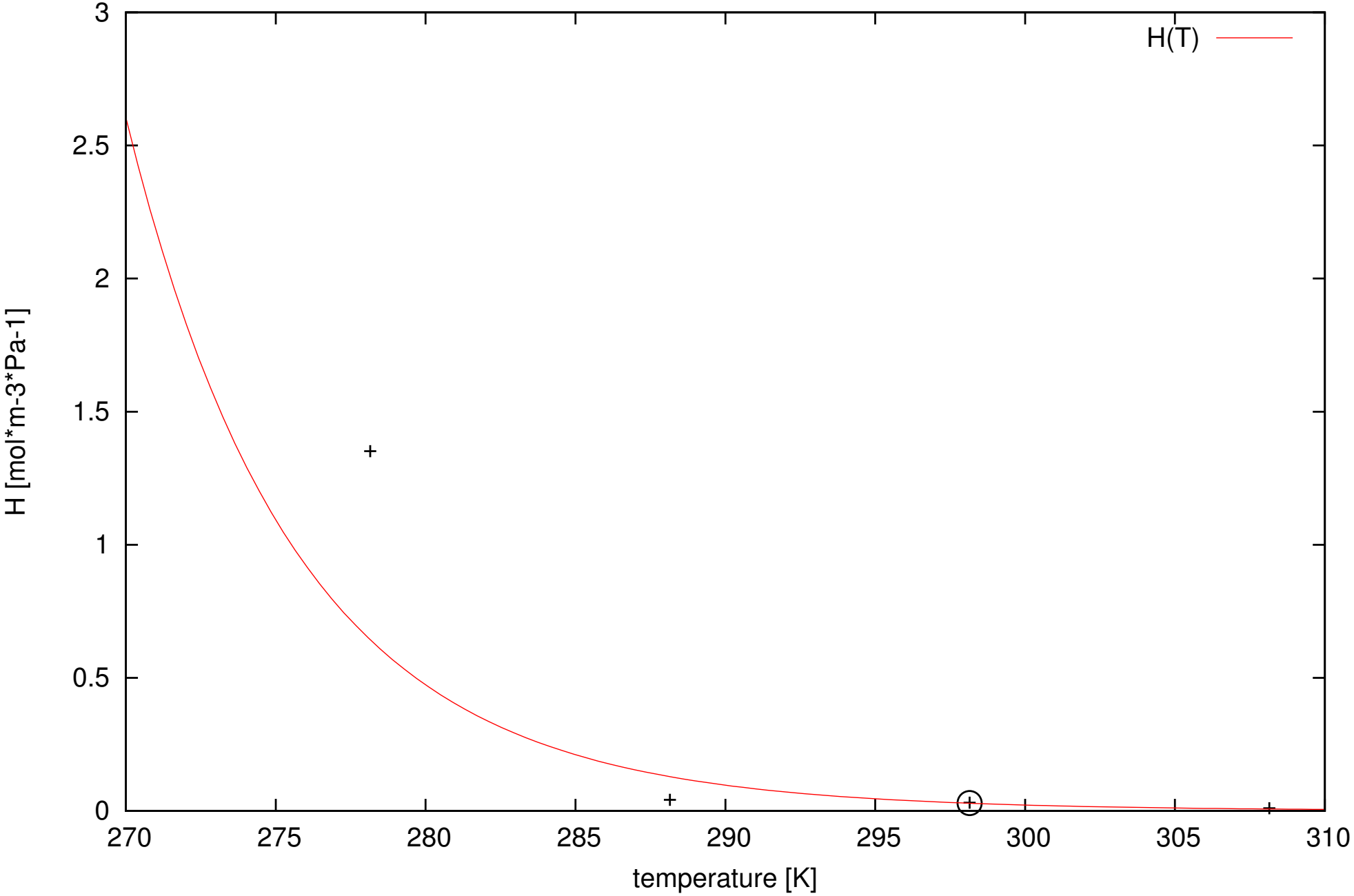

ref = 2496; chem = 4-chlorobiphenyl; casrn = 2051-62-9
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
270
275
280
285
290
295
300
305
310


ref = 2496; chem = 2,2',4,4'-tetrachlorobiphenyl; casrn = 2437-79-8
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
270
275
280
285
290
295
300
305
310

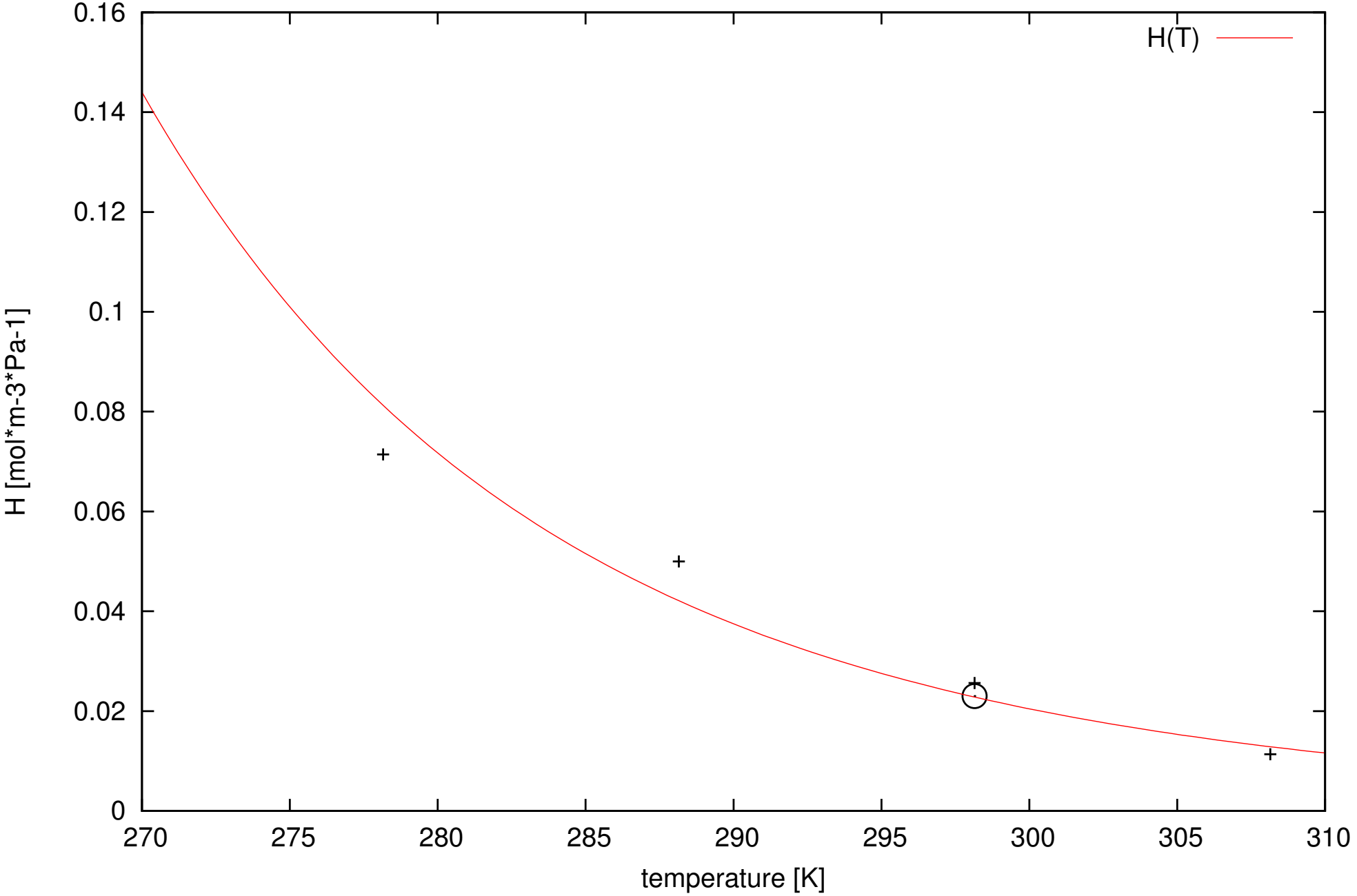
ref = 2496; chem = 2,3',4,4',5-pentachlorobiphenyl; casrn = 31508-00-6

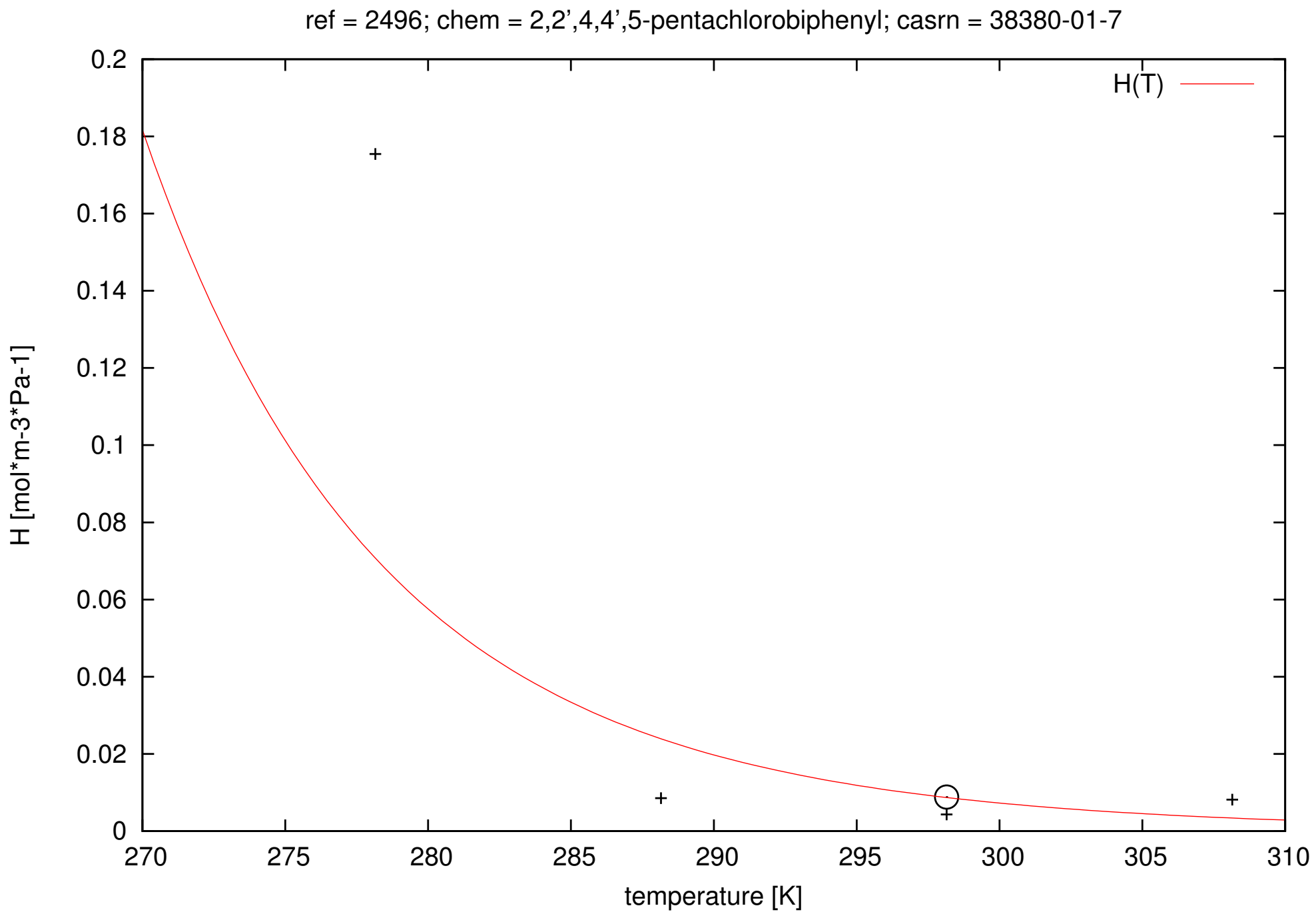


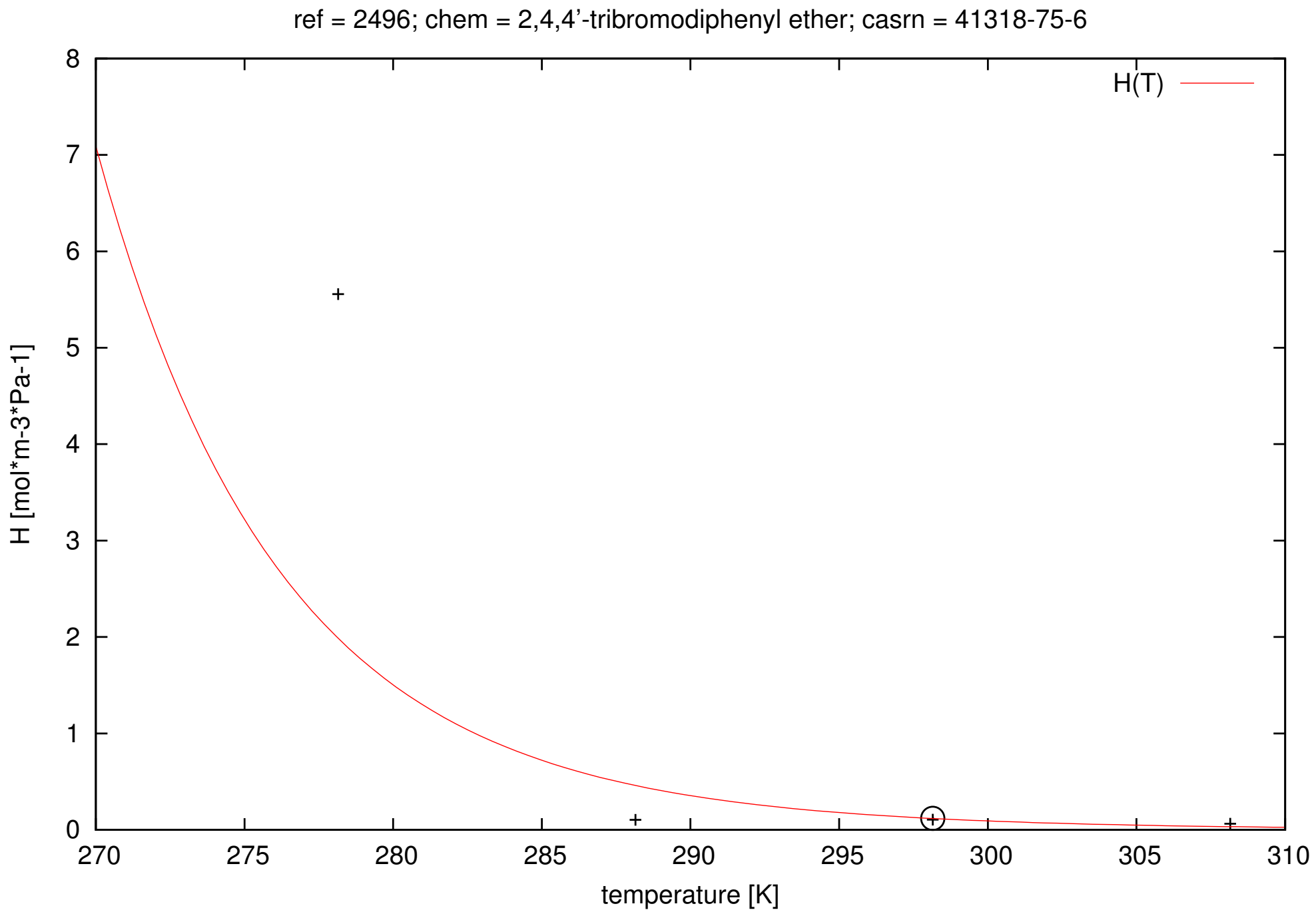
ref = 2496; chem = 3,3',4,4'-tetrachlorobiphenyl; casrn = 32598-13-3



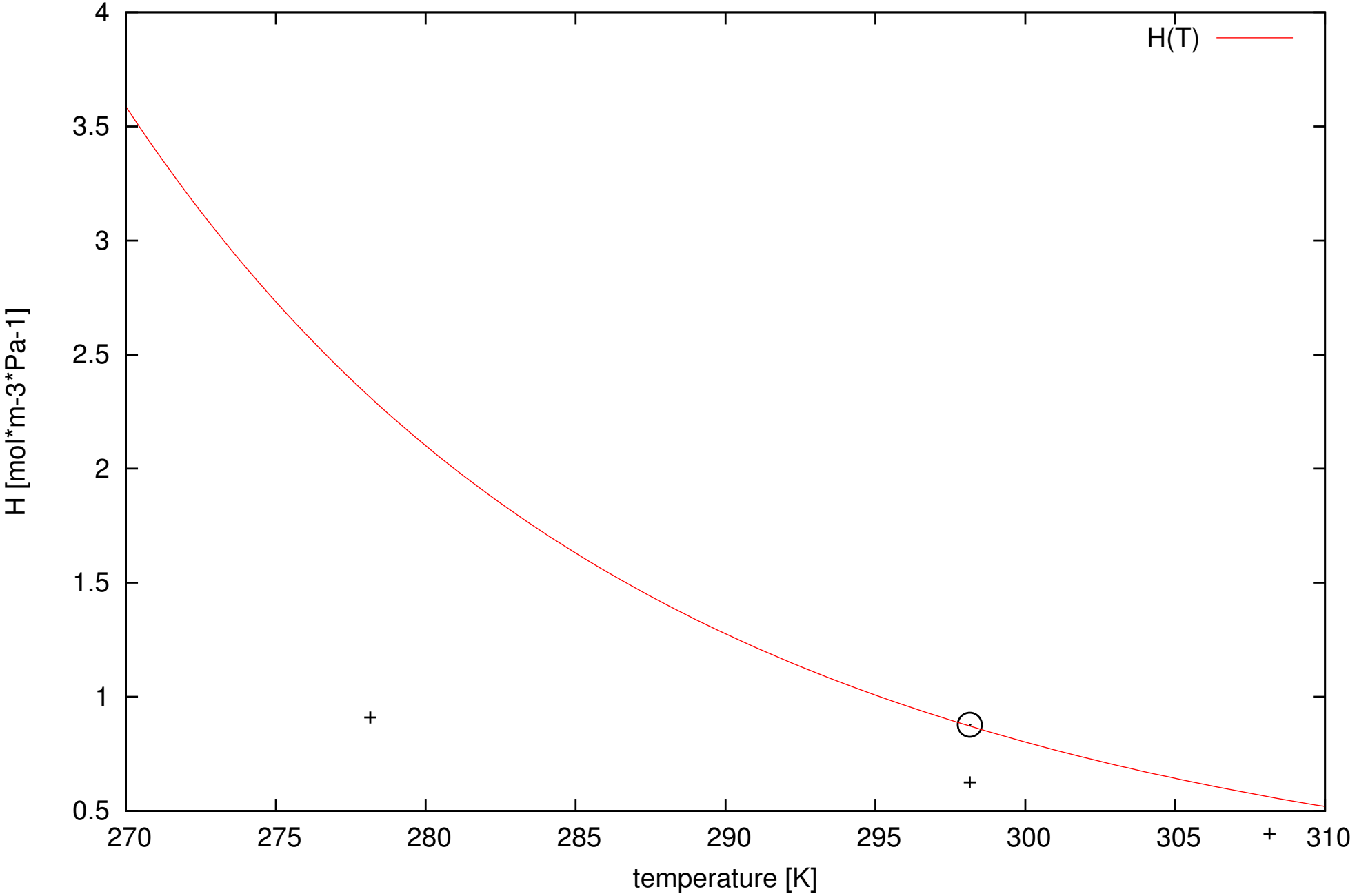
ref = 2496; chem = 2,4'-dichlorobiphenyl; casrn = 34883-43-7



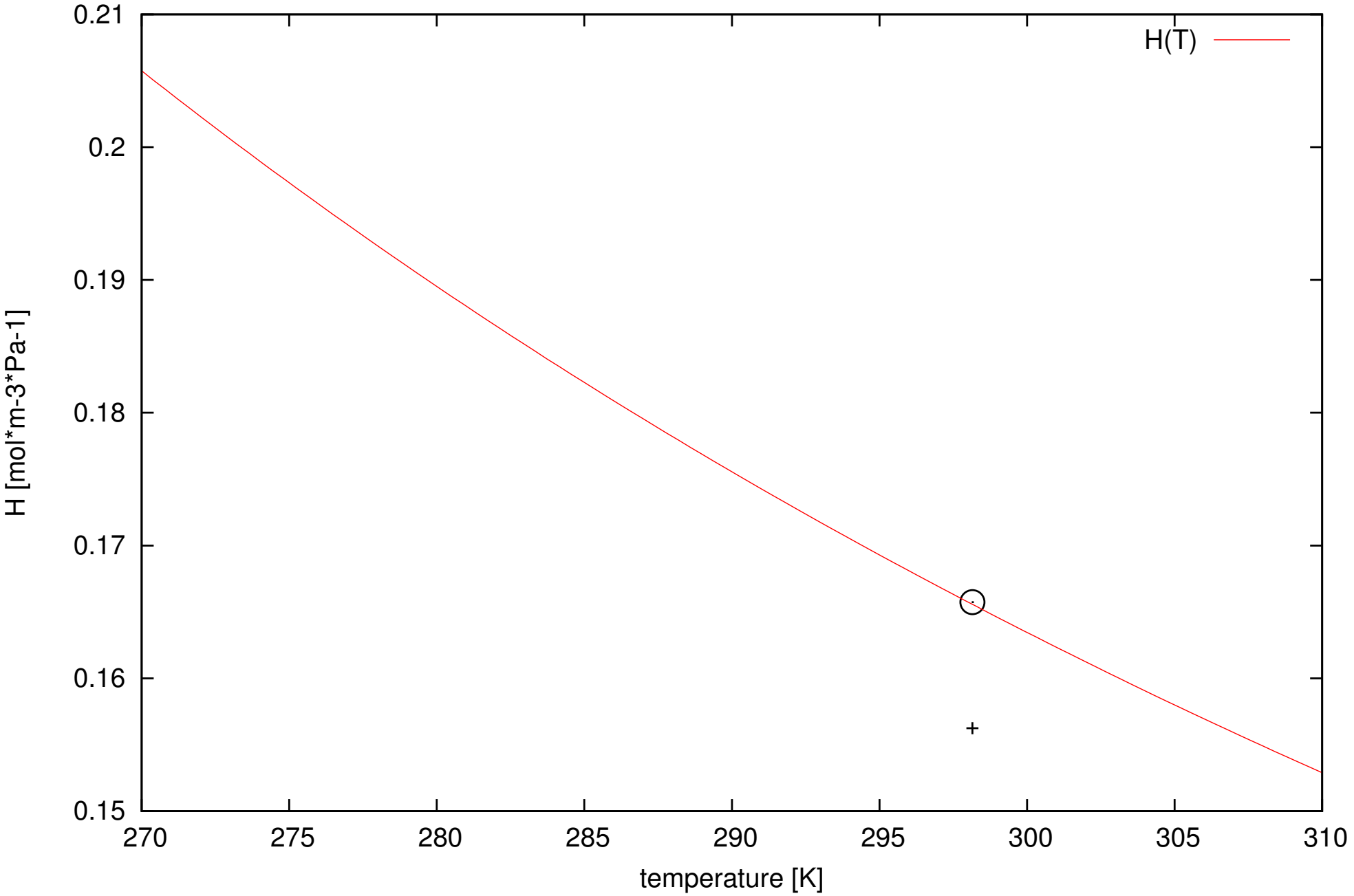

ref = 2496; chem = 2,2',4,4',5-pentachlorobiphenyl; casrn = 38380-01-7
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
270
275
280
285
290
295
300
305
310

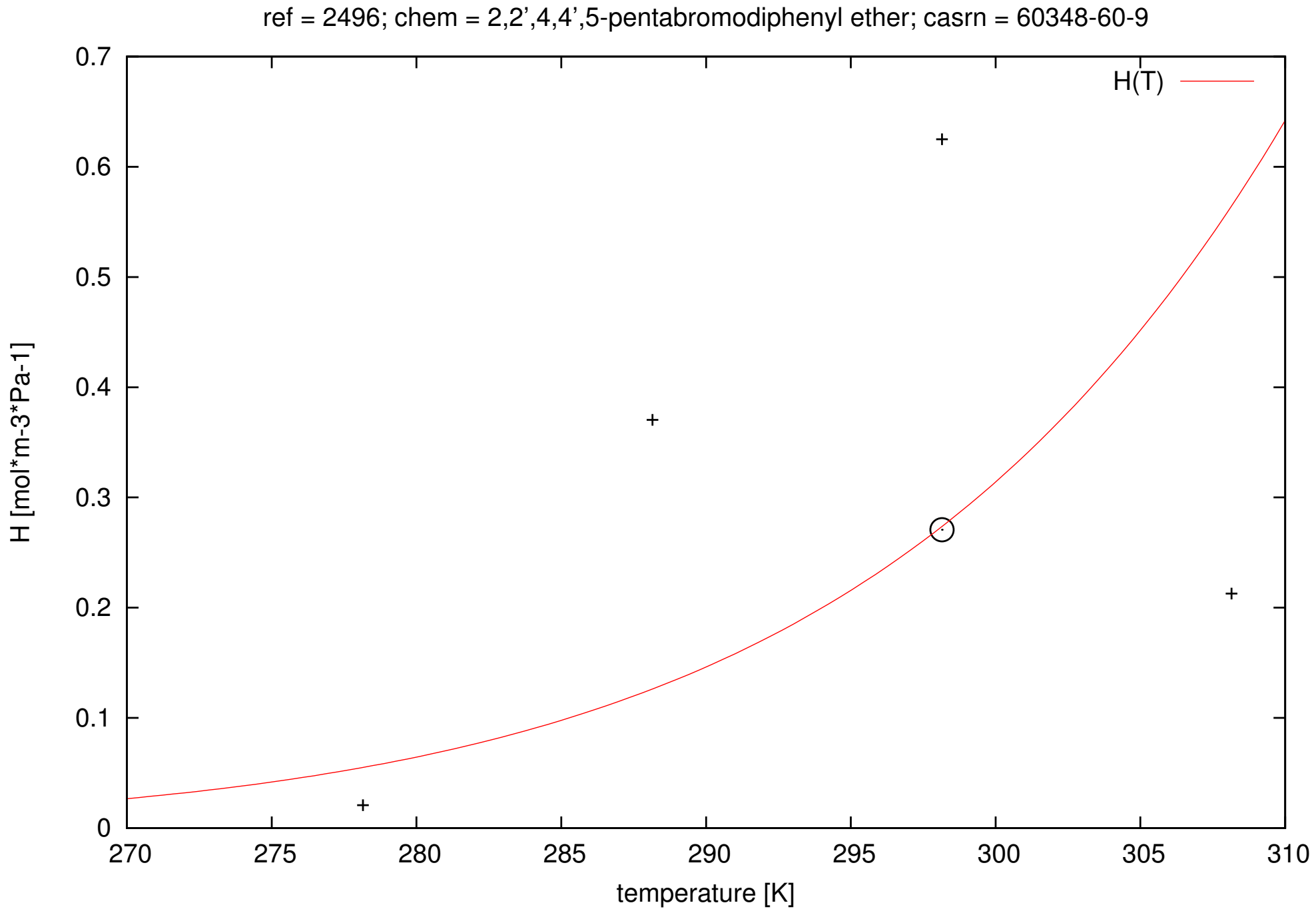

ref = 2496; chem = 2,4,4'-tribromodiphenyl ether; casrn = 41318-75-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0
1
2
3
4
5
6
7
8
270
275
280
285
290
295
300
305
310

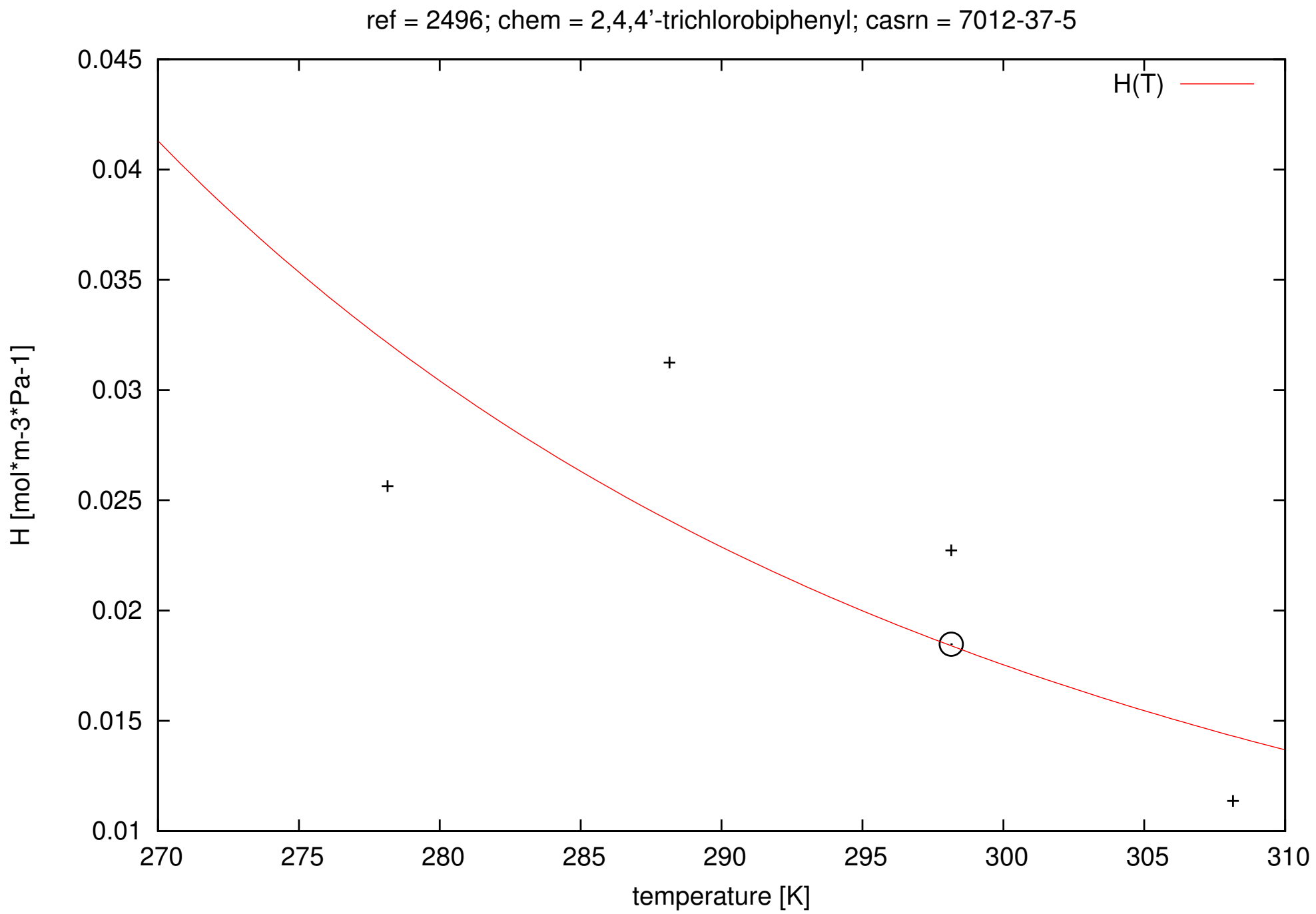
ref = 2496; chem = 2,3',4,4',5-Pentabromodiphenyl ether; casrn = 446254-77-9

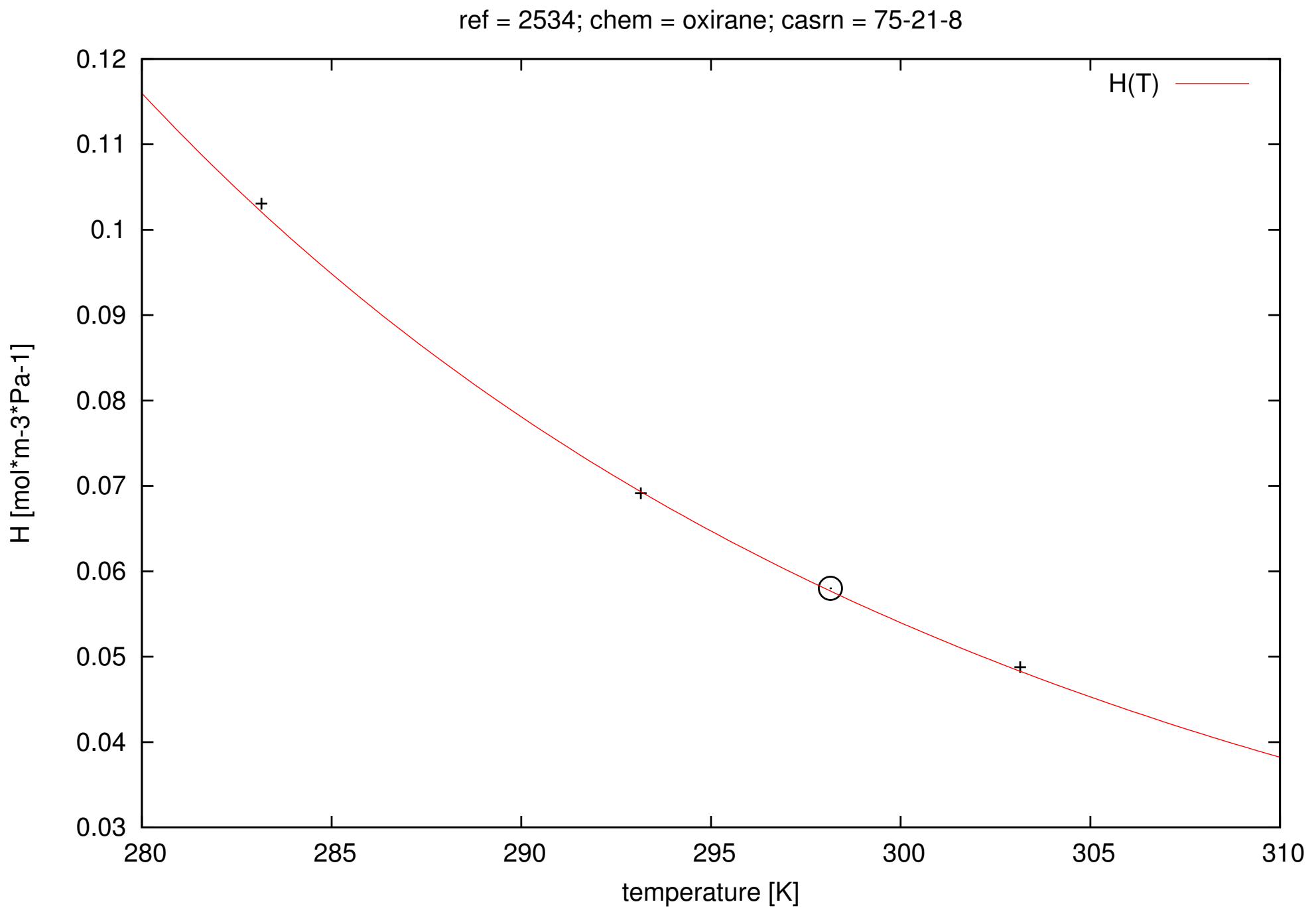


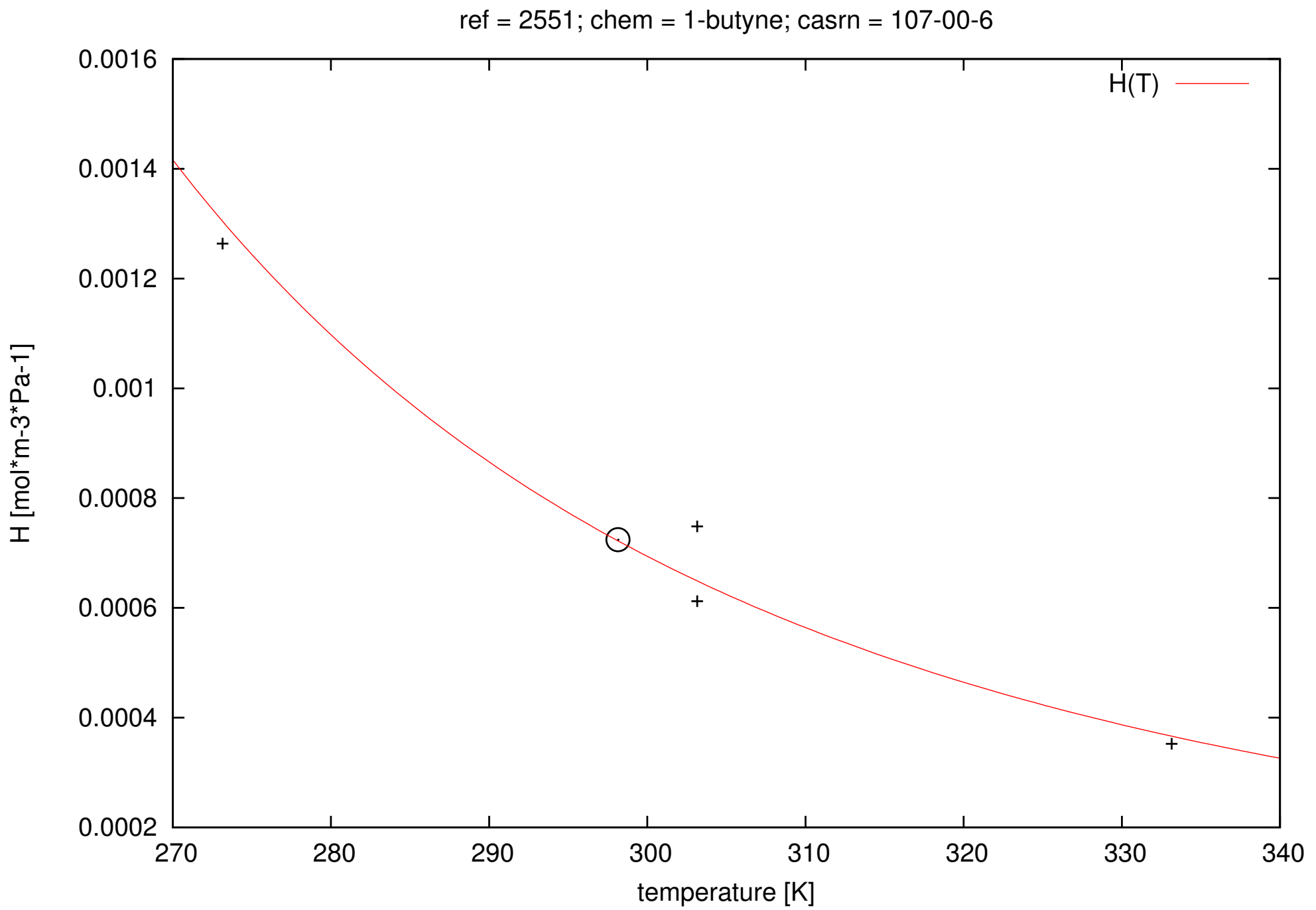
ref = 2496; chem = 2,2',4,4'-tetrabromodiphenyl ether; casrn = 5436-43-1

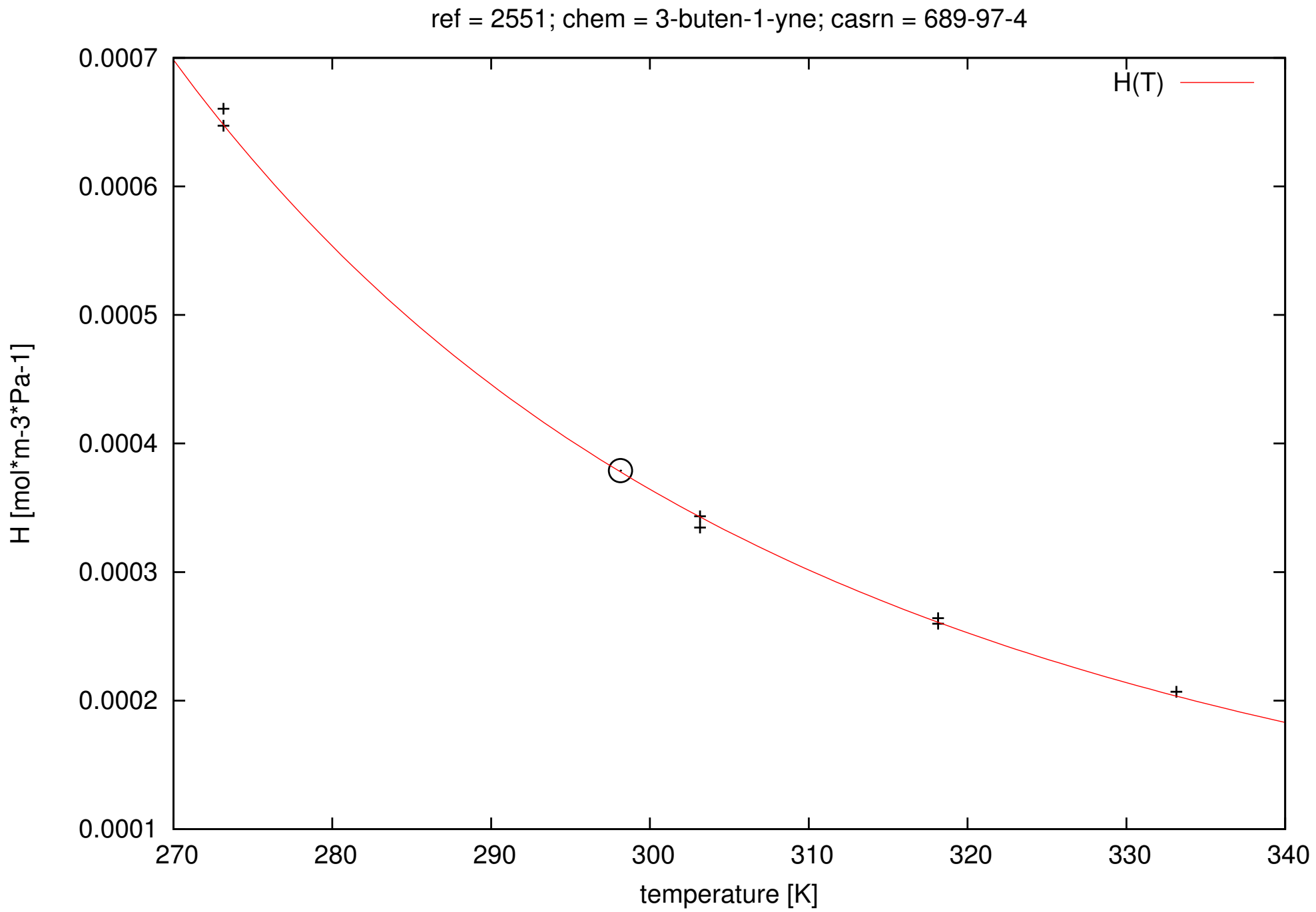


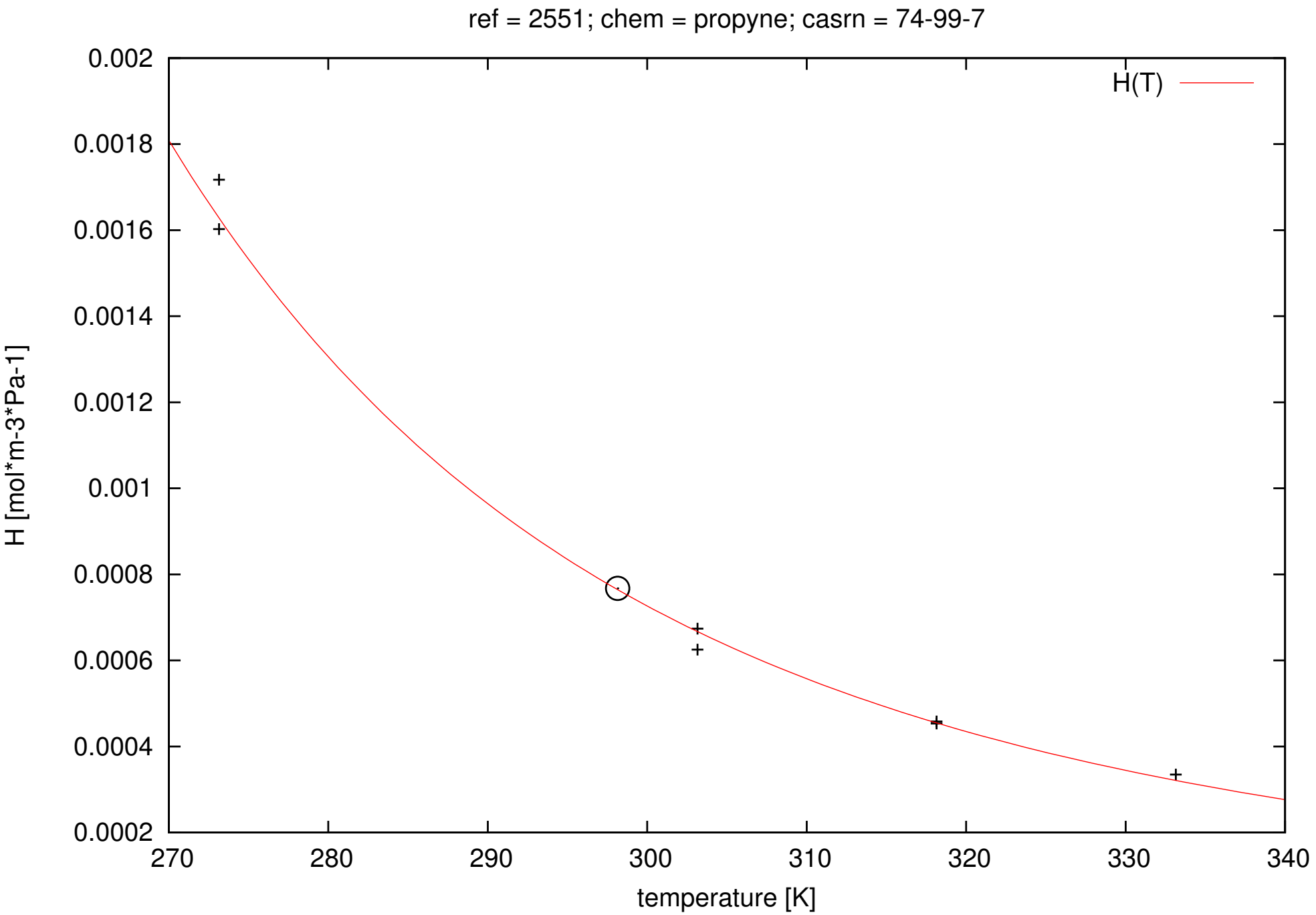

ref = 2496; chem = 2,2',4,4',5-pentabromodiphenyl ether; casrn = 60348-60-9
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
270
275
280
285
290
295
300
305
310

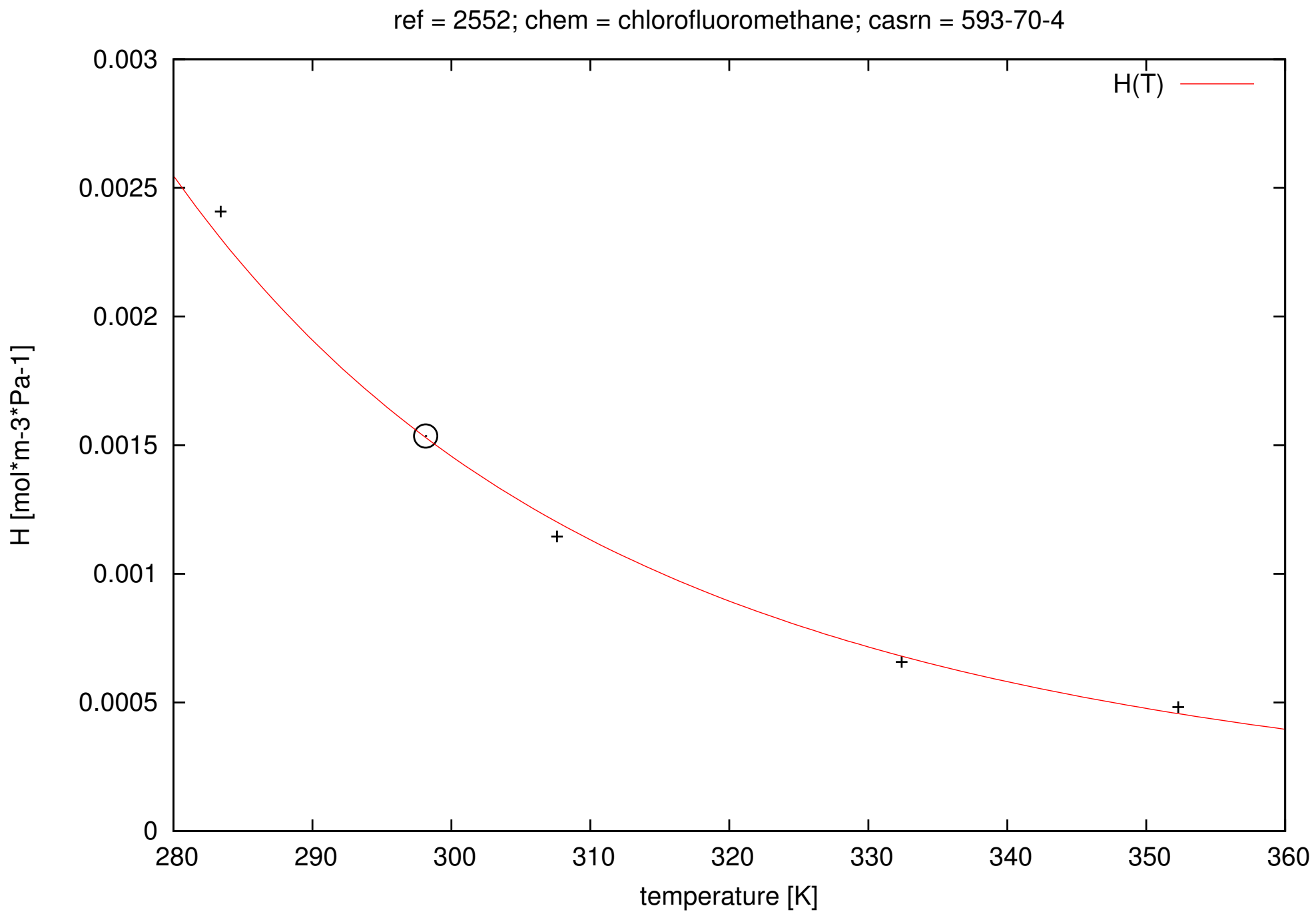

ref = 2496; chem = 2,4,4'-trichlorobiphenyl; casrn = 7012-37-5
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
270
275
280
285
290
295
300
305
310

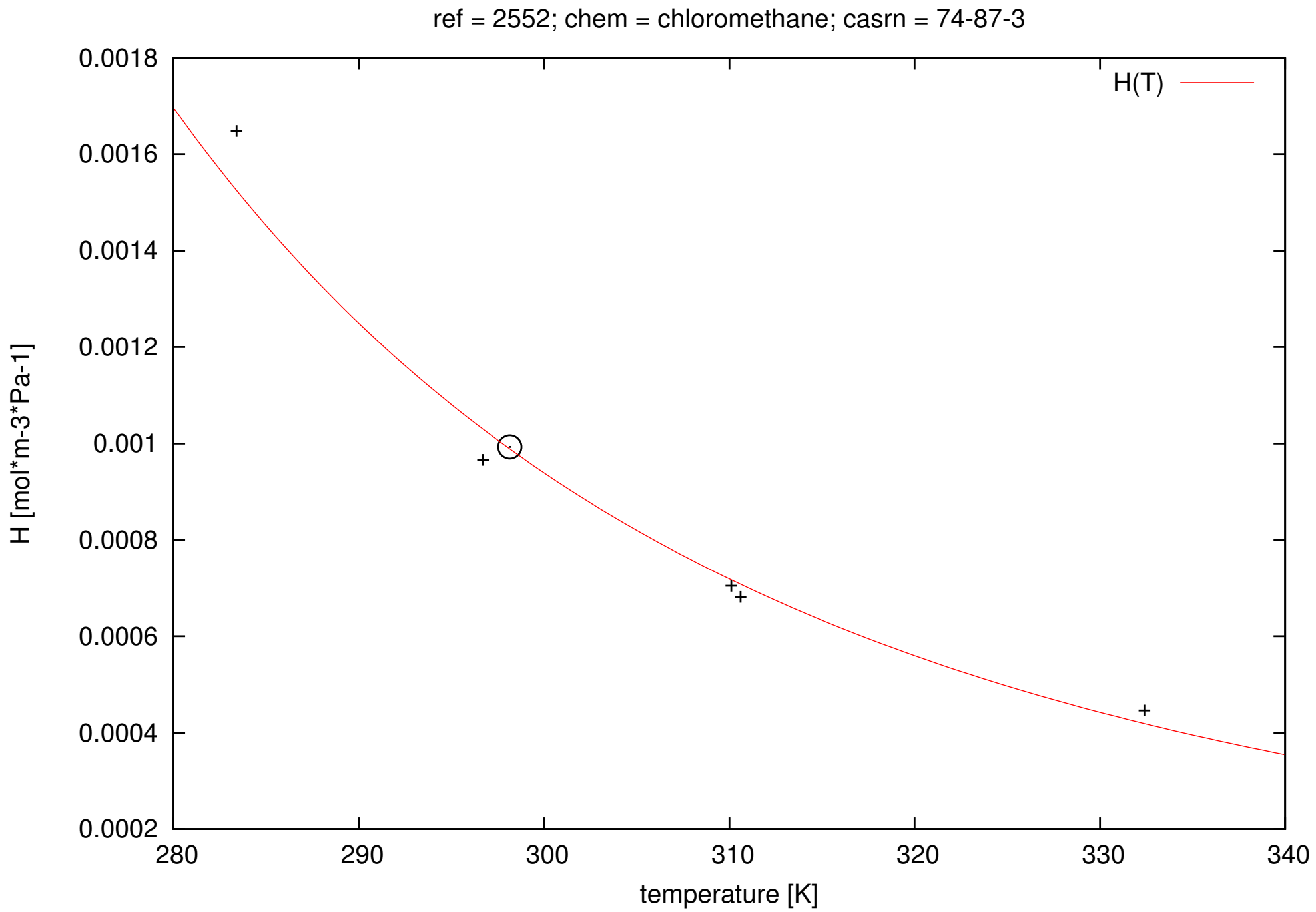

ref = 2534; chem = oxirane; casrn = 75-21-8
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
280
285
290
295
300
305
310

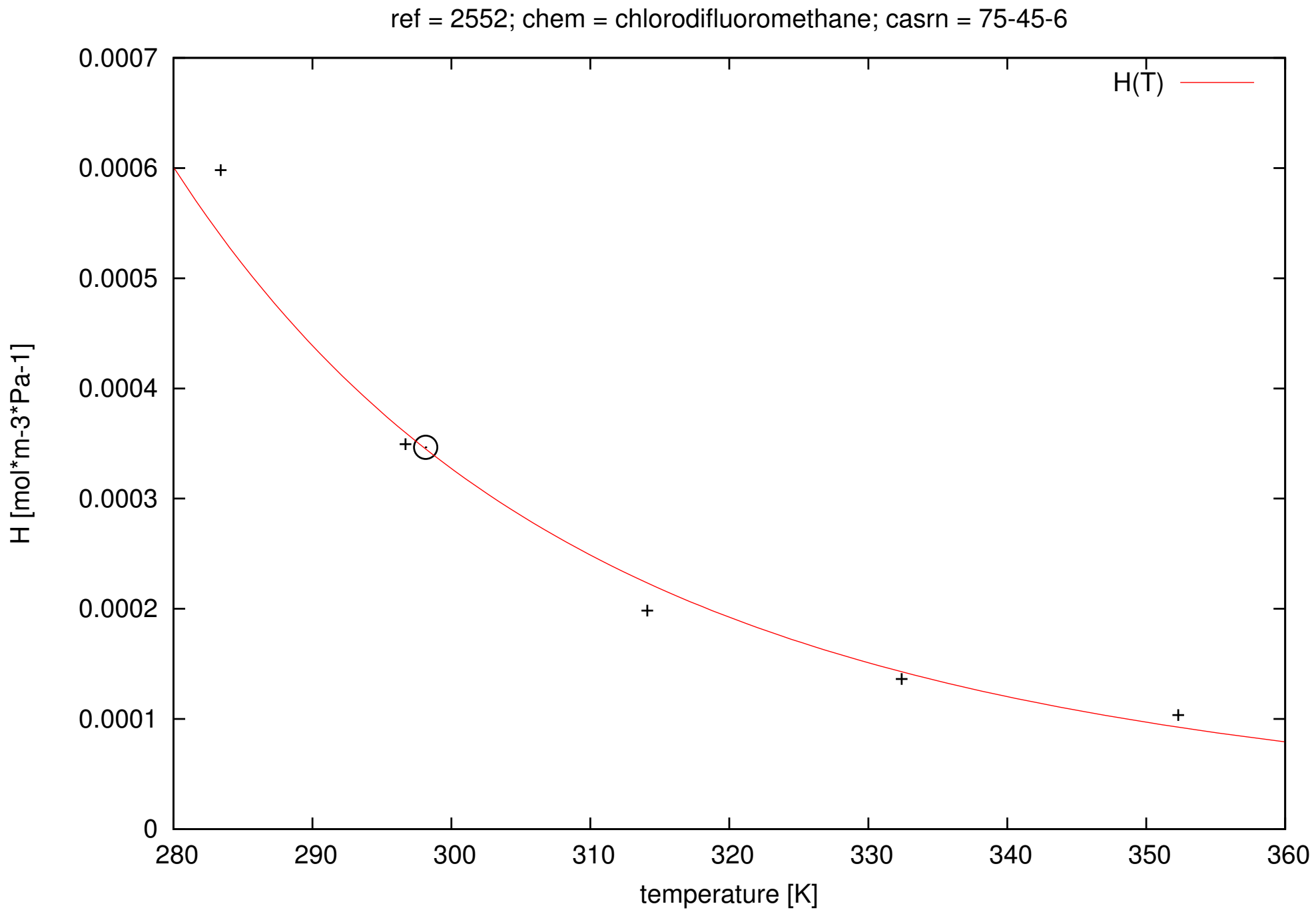

ref = 2551; chem = 1-butyne; casrn = 107-00-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
270
280
290
300
310
320
330
340

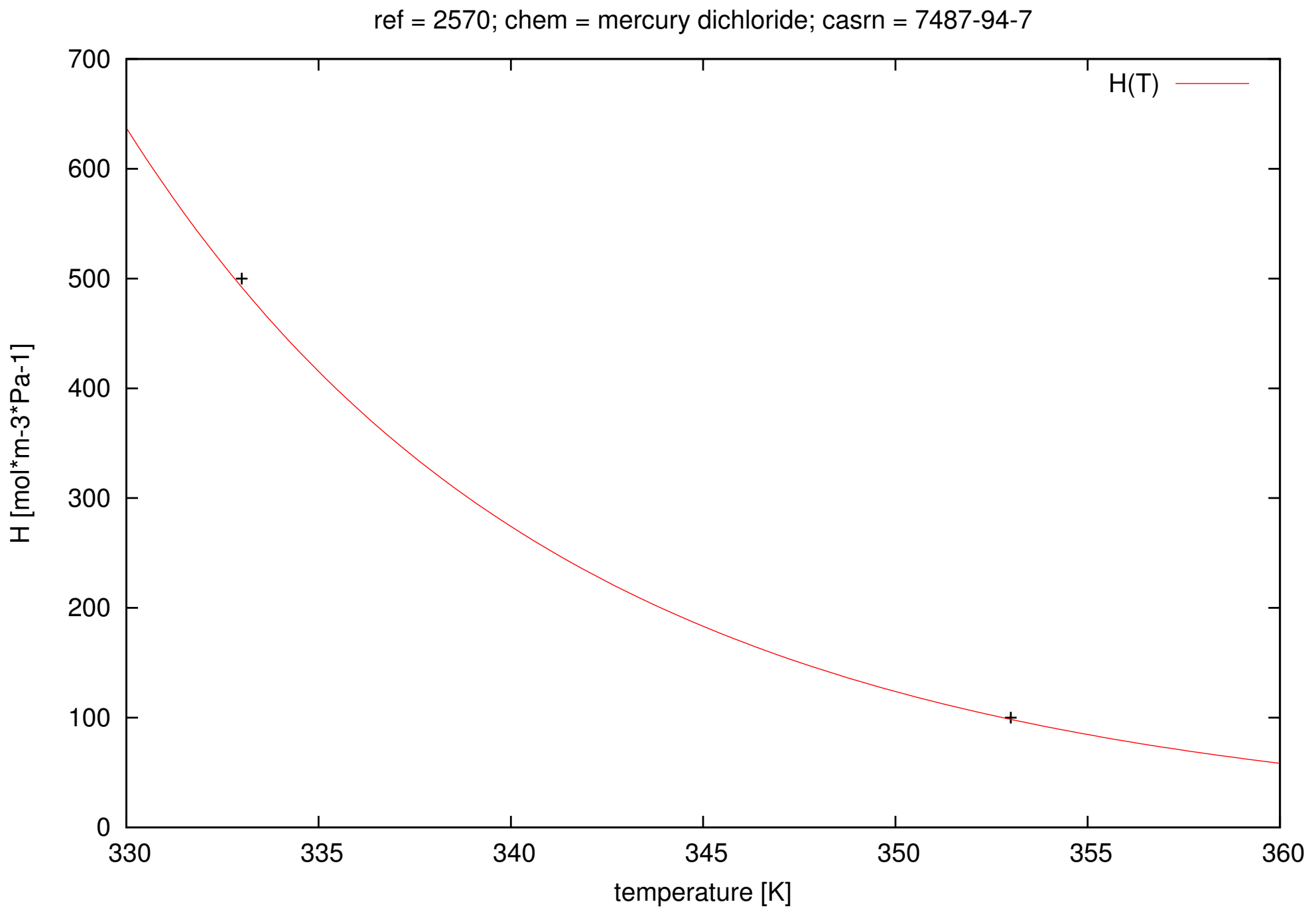

ref = 2551; chem = 3-buten-1-yne; casrn = 689-97-4
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
270
280
290
300
310
320
330
340

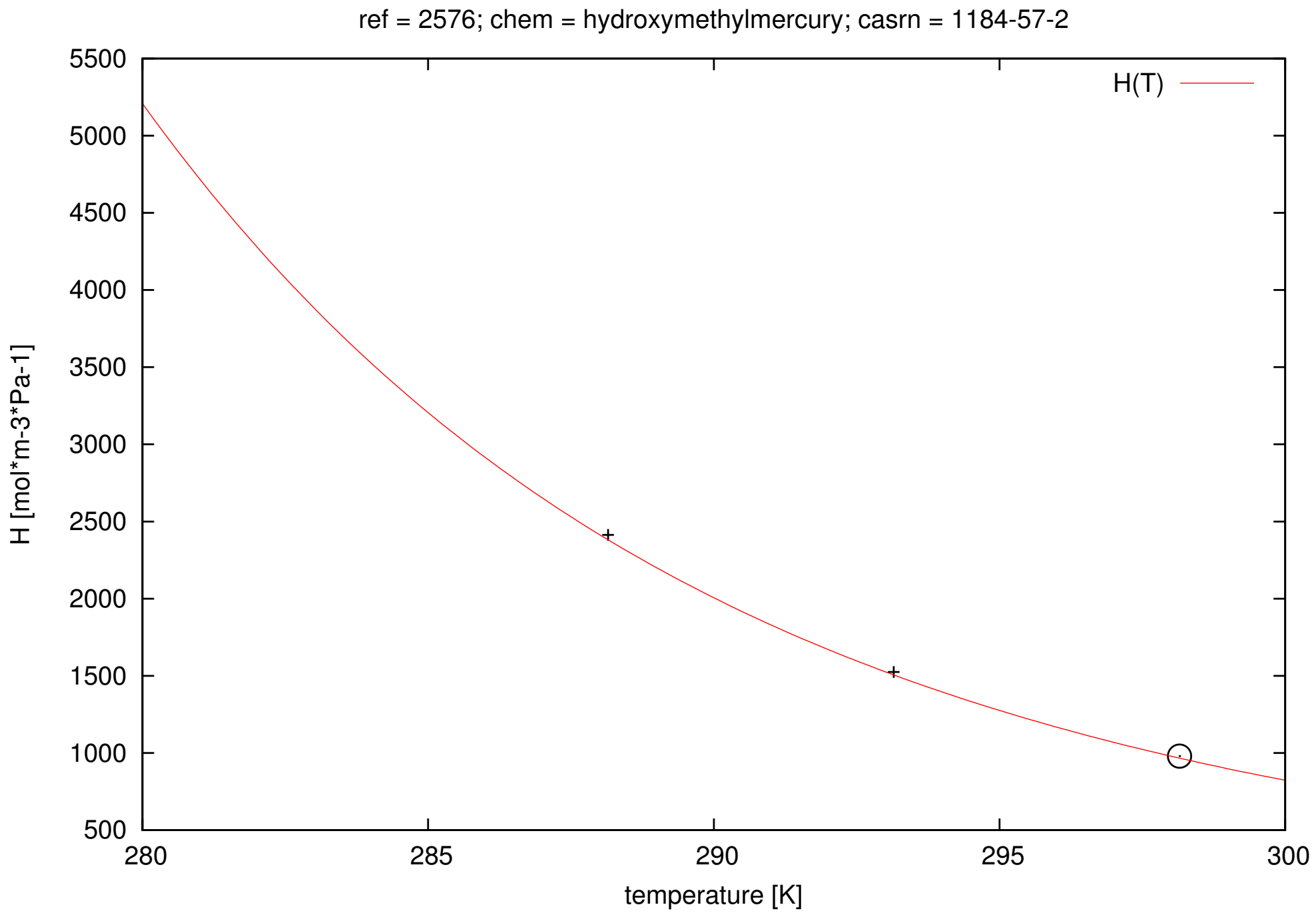

ref = 2551; chem = propyne; casrn = 74-99-7
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
270
280
290
300
310
320
330
340

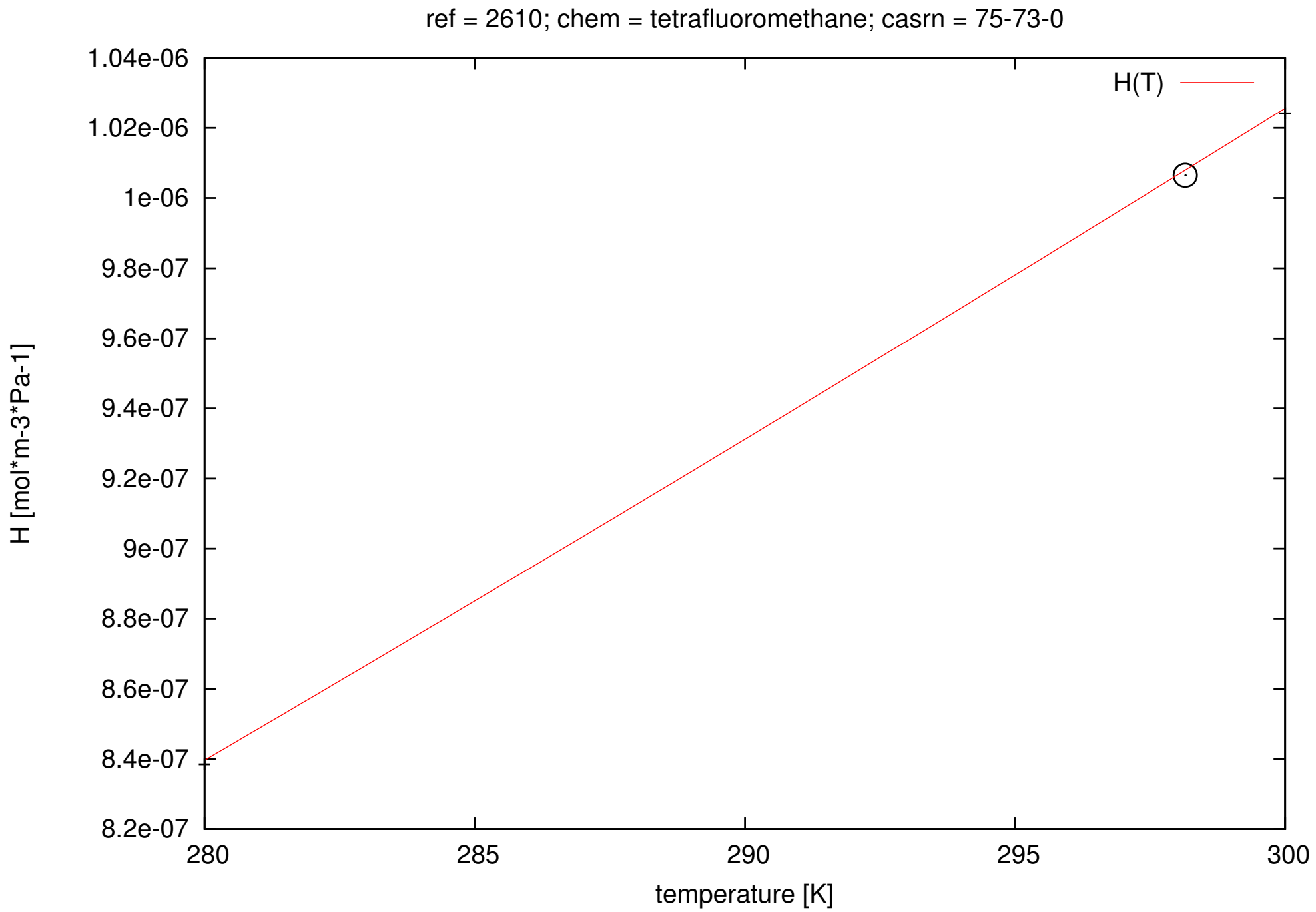

ref = 2552; chem = chlorofluoromethane; casrn = 593-70-4
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
280
290
300
310
320
330
340
350
360

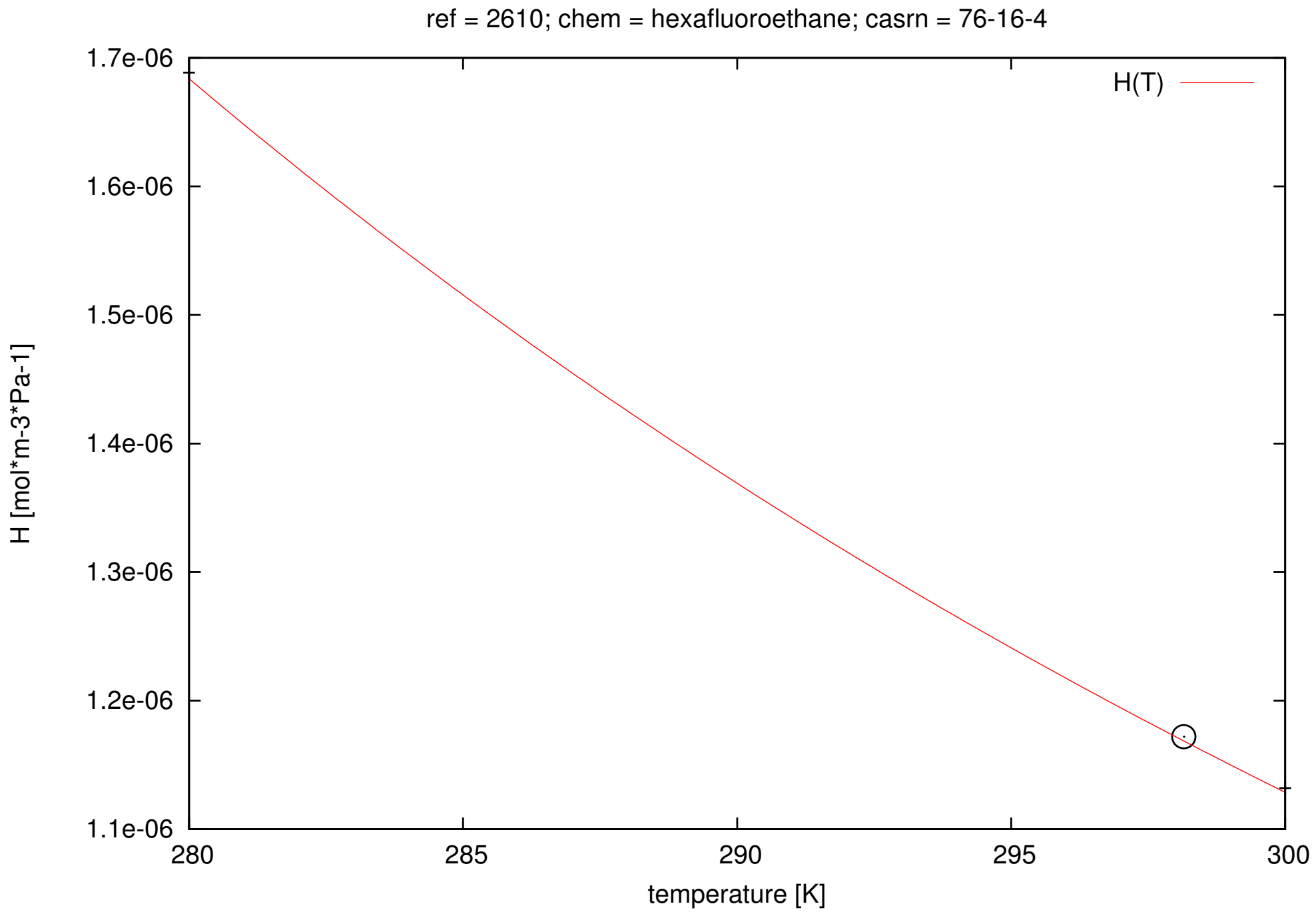

ref = 2552; chem = chloromethane; casrn = 74-87-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
280
290
300
310
320
330
340

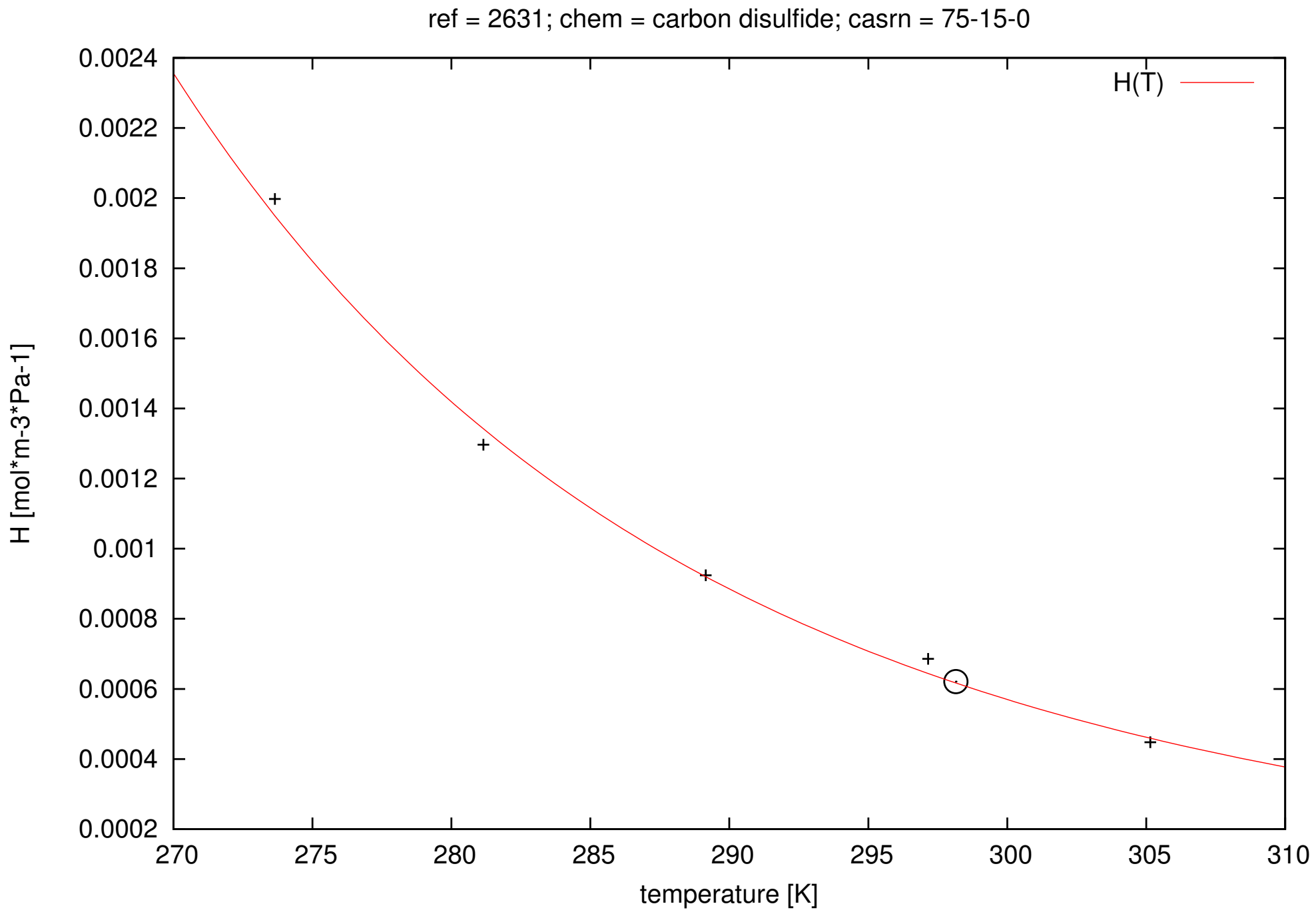

ref = 2552; chem = chlorodifluoromethane; casrn = 75-45-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0
280
290
300
310
320
330
340
350
360

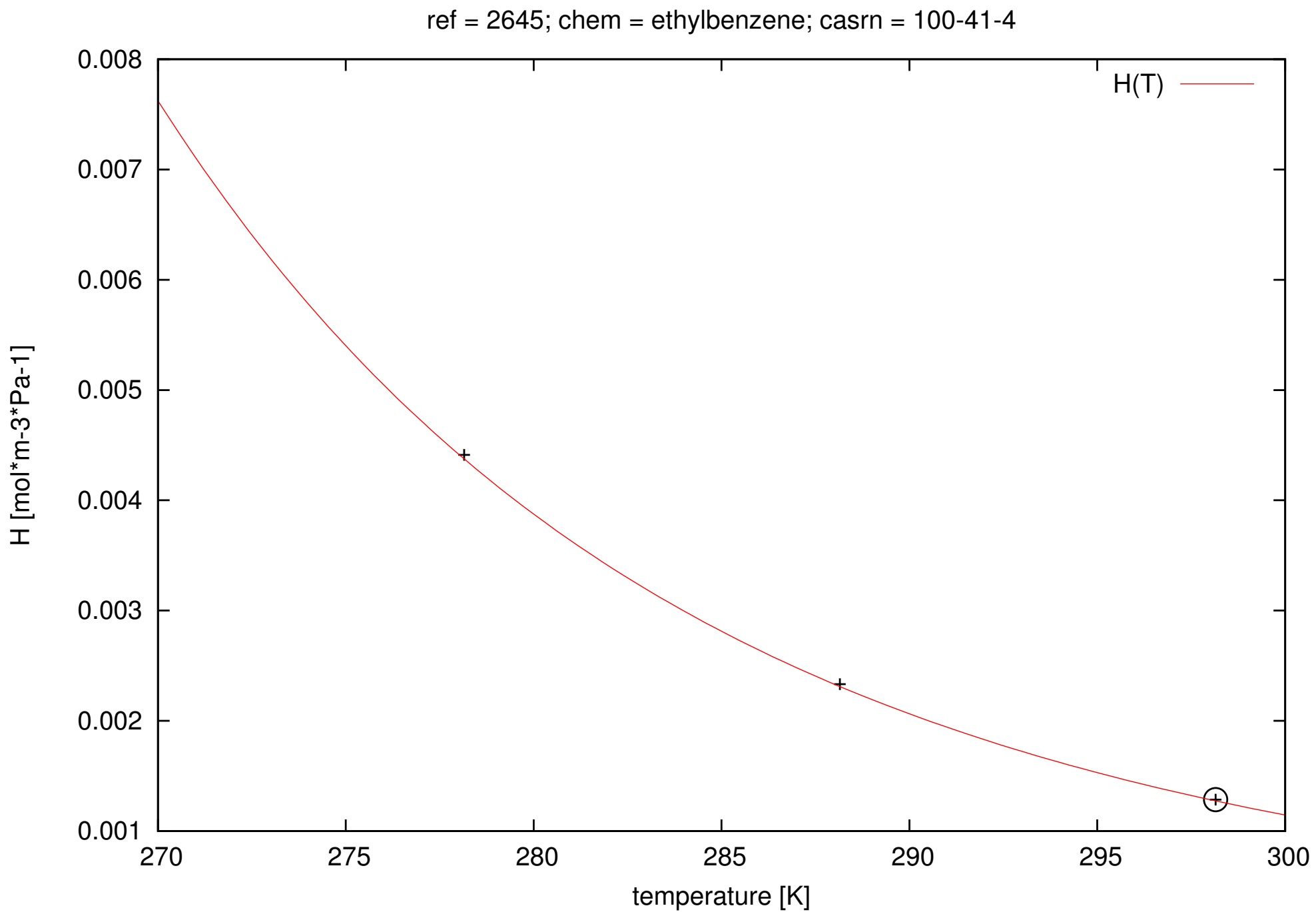

ref = 2570; chem = mercury dichloride; casrn = 7487-94-7
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0
100
200
300
400
500
600
700
330
335
340
345
350
355
360

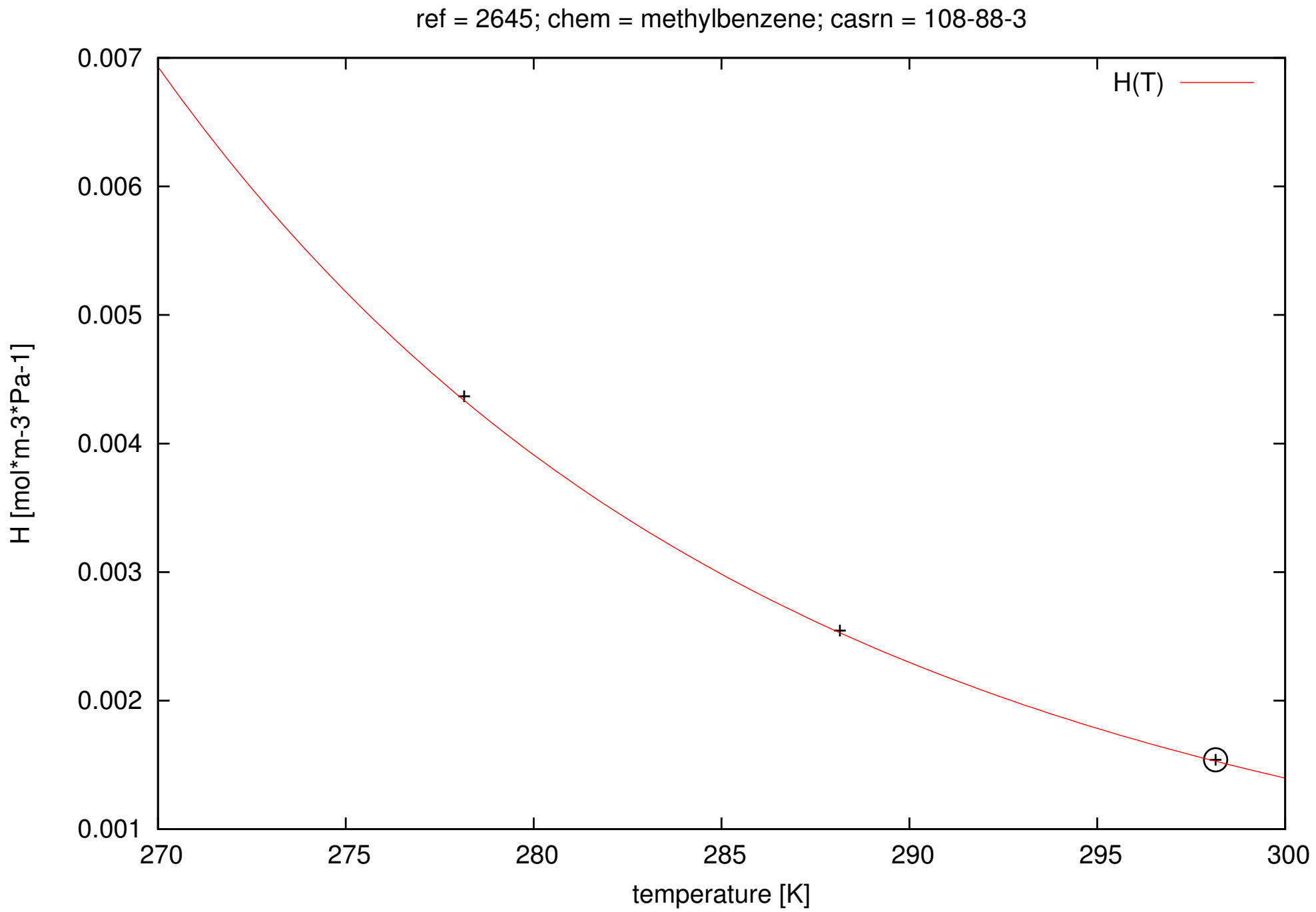

ref = 2576; chem = hydroxymethylmercury; casrn = 1184-57-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
5500
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
280
285
290
295
300

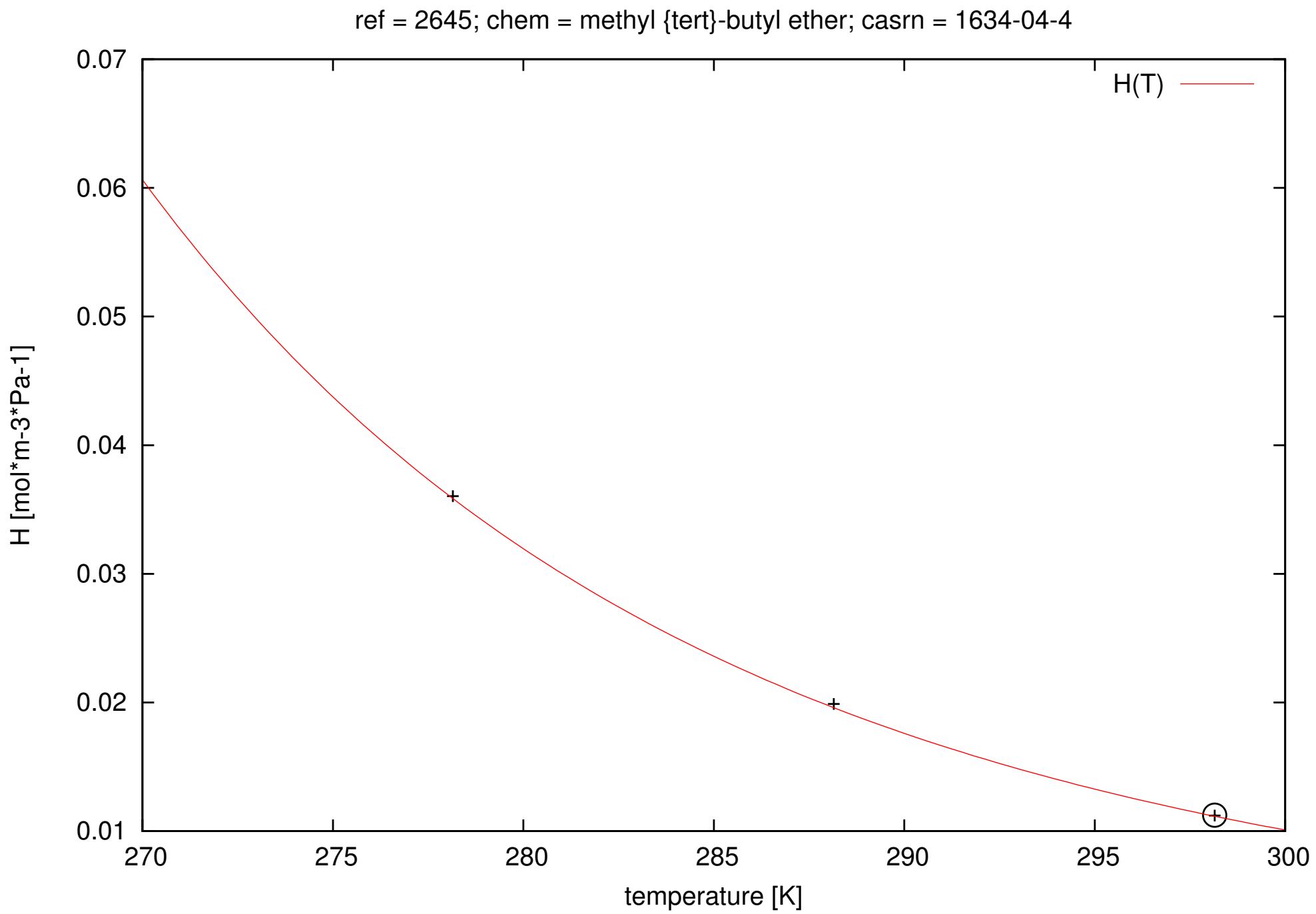

ref = 2610; chem = tetrafluoromethane; casrn = 75-73-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
1.04e-06
1.02e-06
1e-06
9.8e-07
9.6e-07
9.4e-07
9.2e-07
9e-07
8.8e-07
8.6e-07
8.4e-07
8.2e-07
280
285
290
295
300

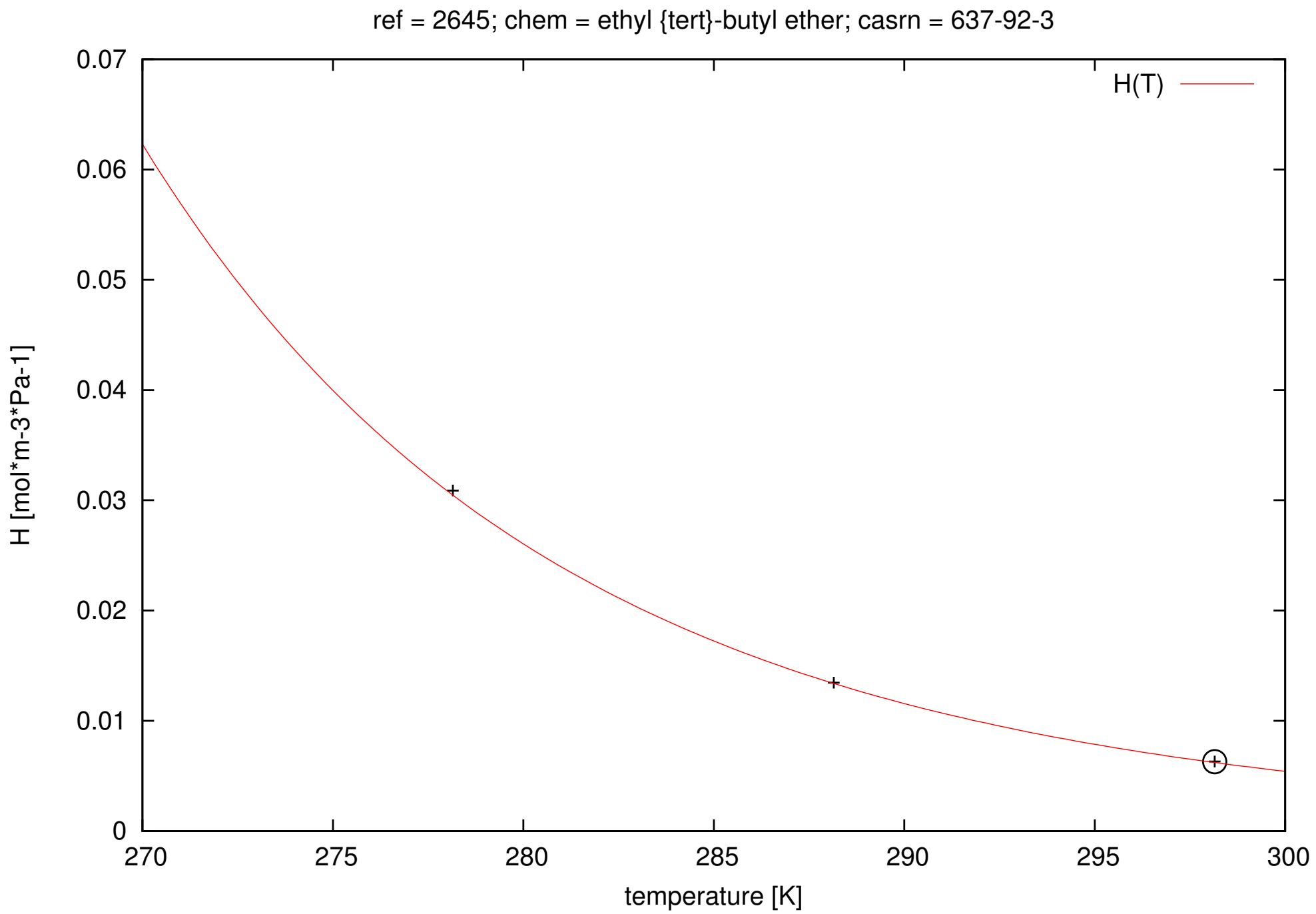

ref = 2610; chem = hexafluoroethane; casrn = 76-16-4
H(T)
H [mol*m-3*Pa-1]
1.7e-06
1.6e-06
1.5e-06
1.4e-06
1.3e-06
1.2e-06
1.1e-06
280
285
290
295
300
temperature [K]

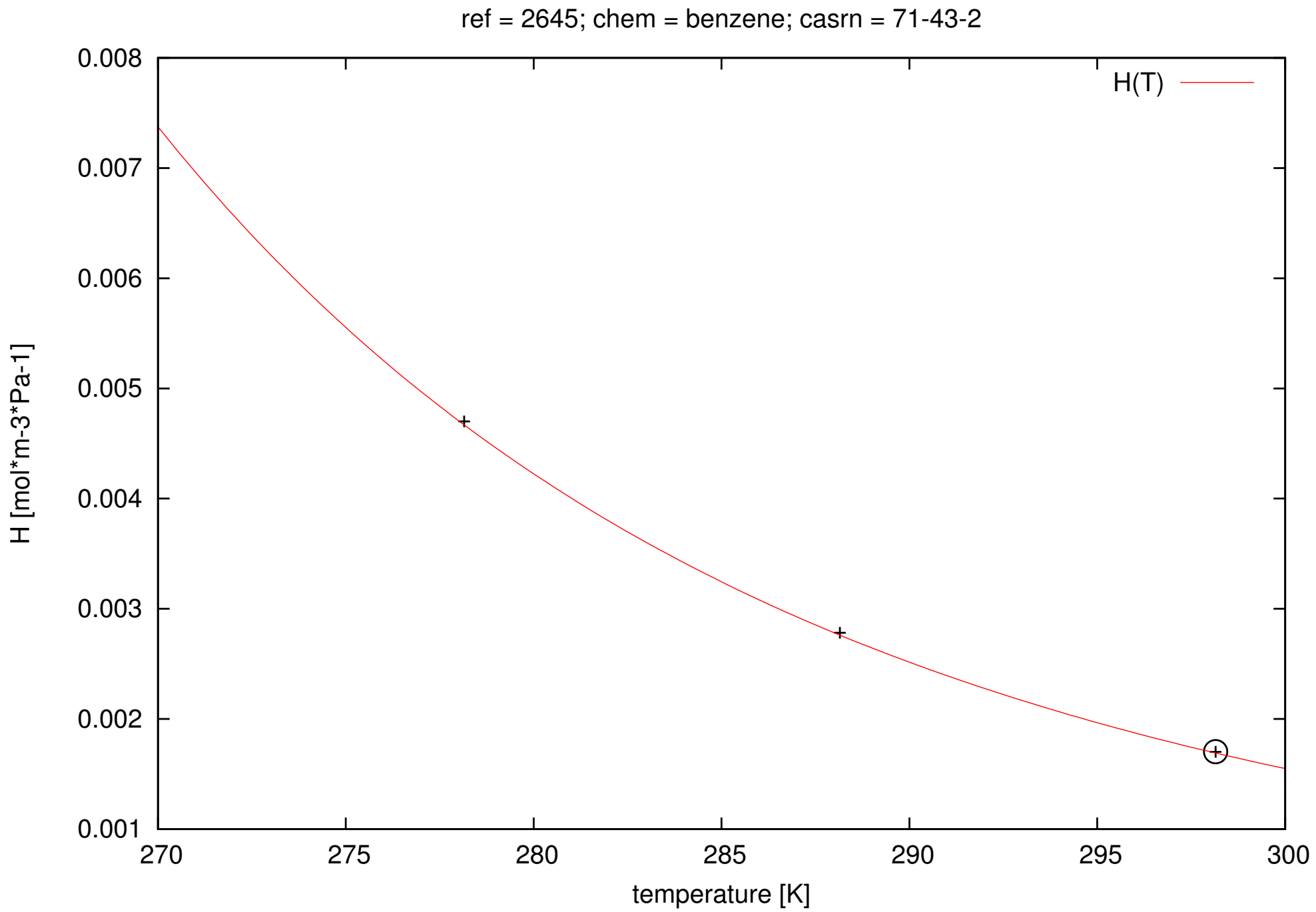

ref = 2631; chem = carbon disulfide; casrn = 75-15-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
270
275
280
285
290
295
300
305
310

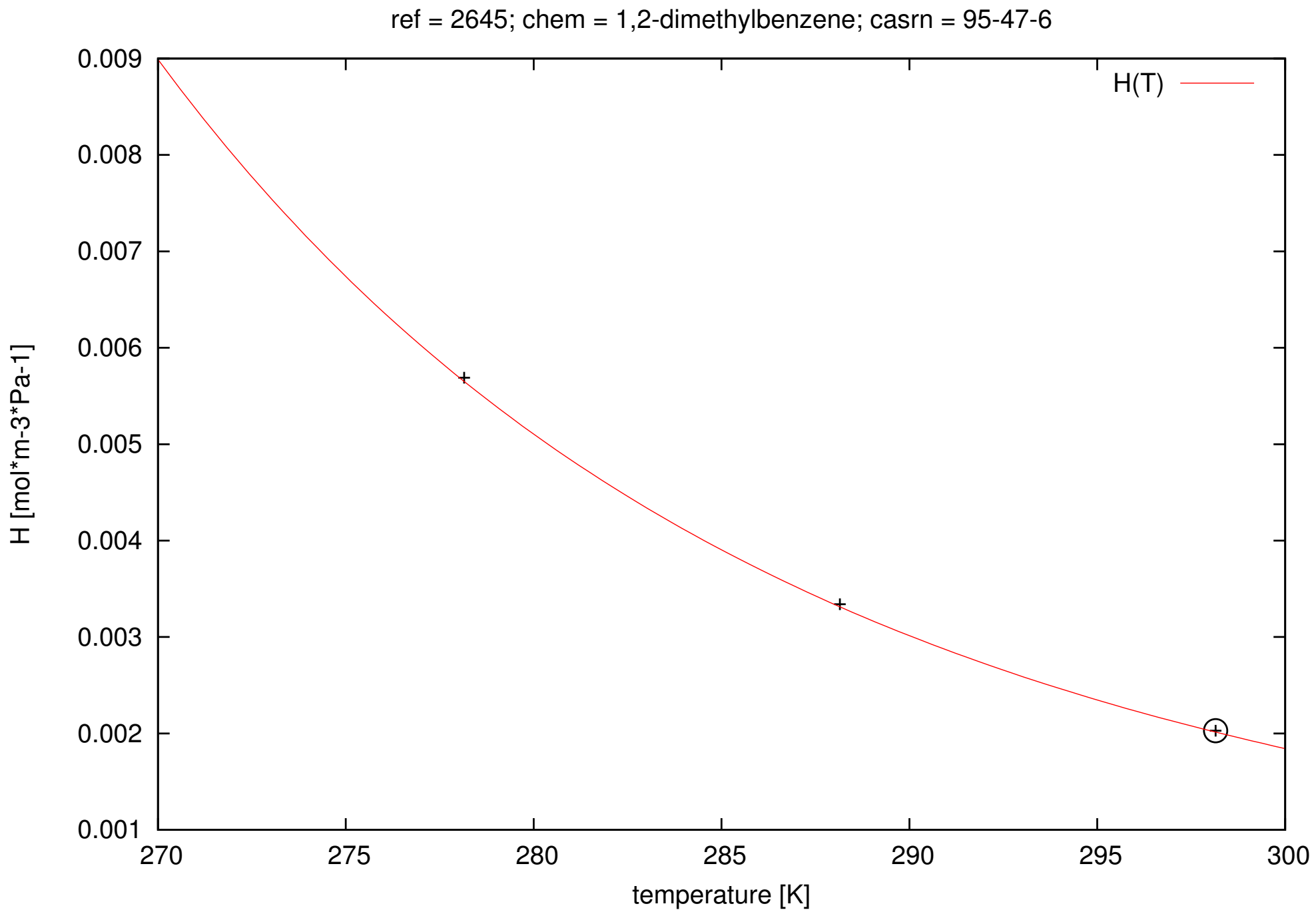

ref = 2645; chem = ethylbenzene; casrn = 100-41-4
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
270
275
280
285
290
295
300

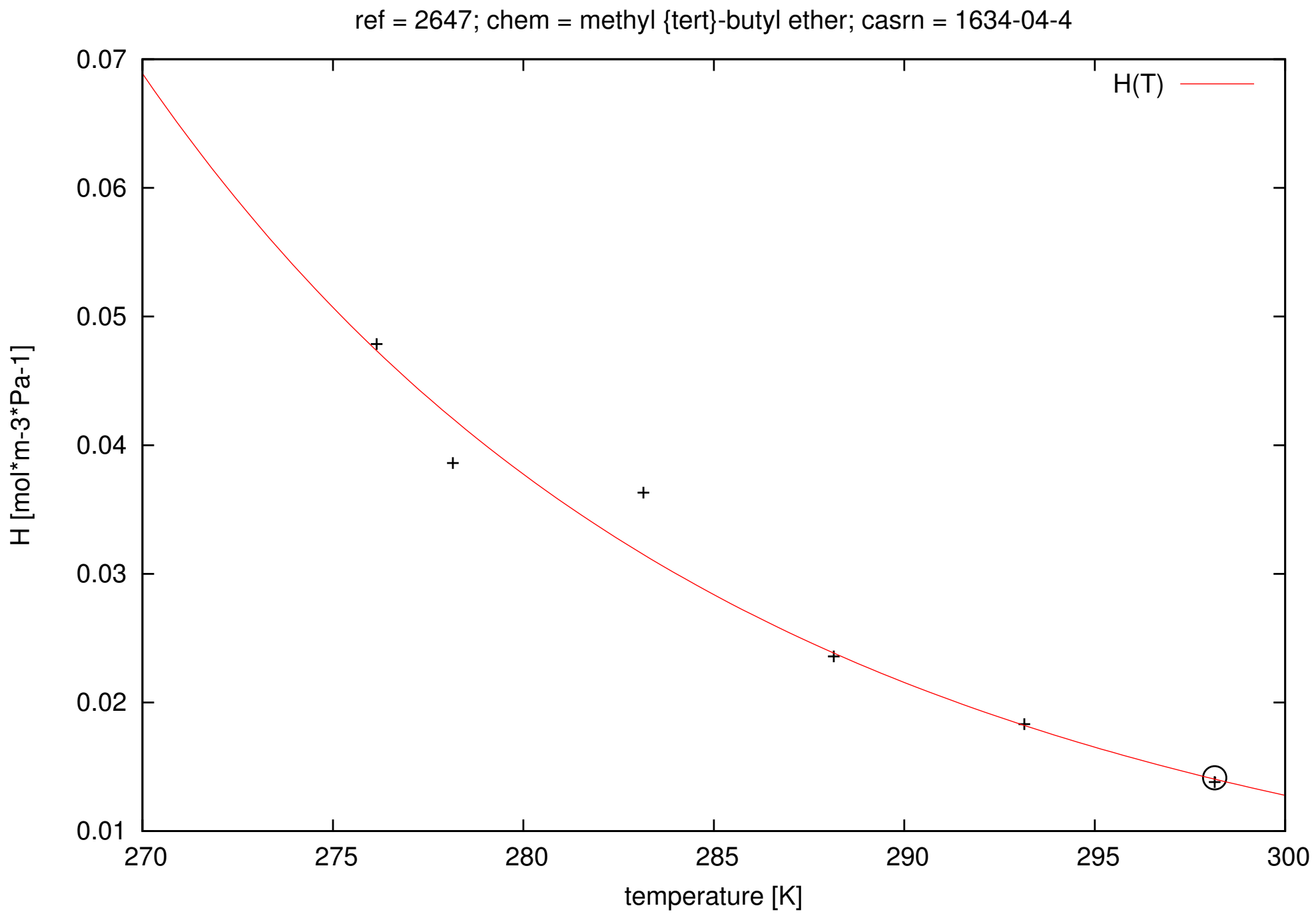

ref = 2645; chem = methylbenzene; casrn = 108-88-3
H(T)
H [mol*m-3*Pa-1]
0.007
0.006
0.005
0.004
0.003
0.002
0.001
270
275
280
285
290
295
300
temperature [K]

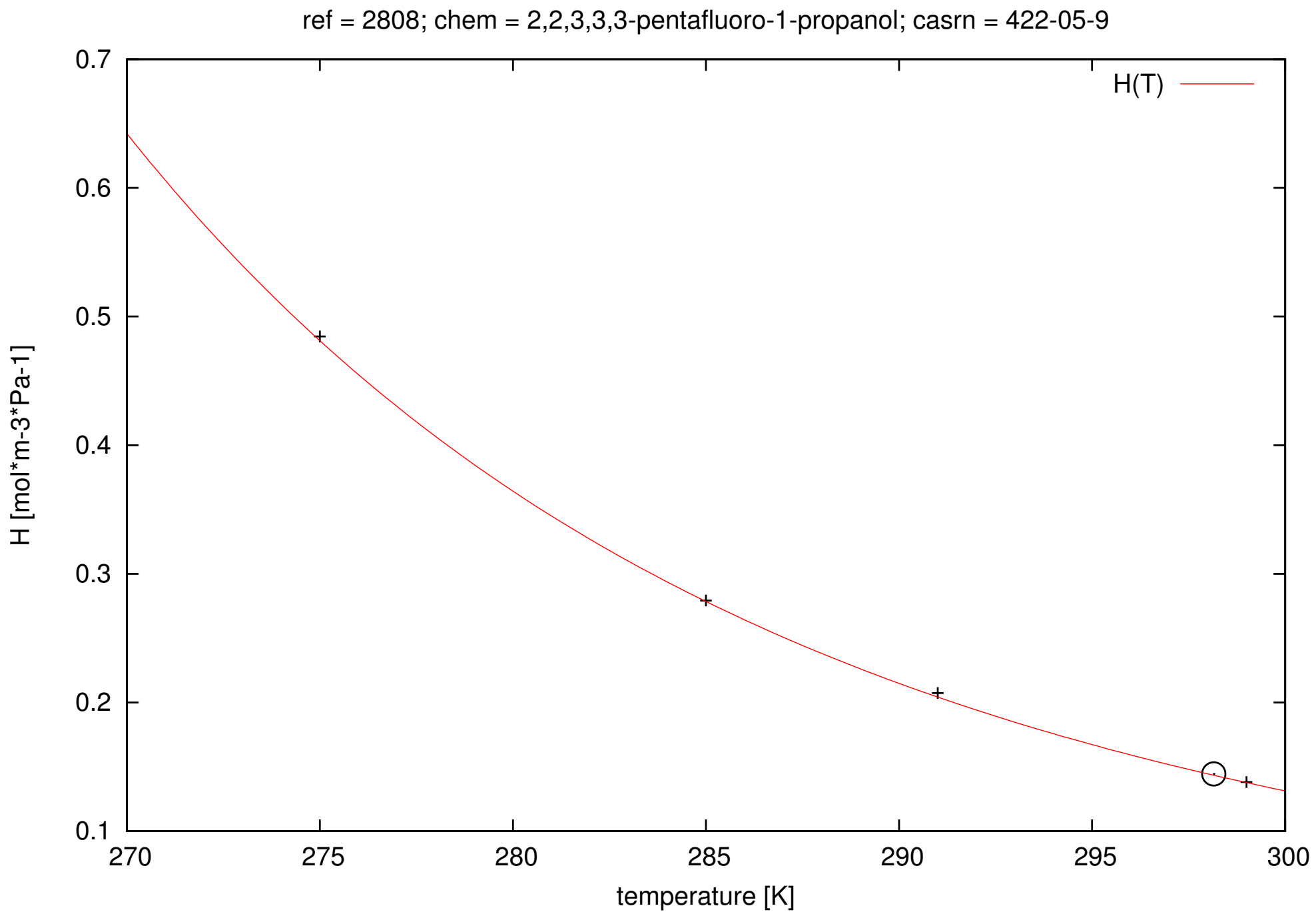

ref = 2645; chem = methyl {tert}-butyl ether; casrn = 1634-04-4
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.07
0.06
0.05
0.04
0.03
0.02
0.01
270
275
280
285
290
295
300

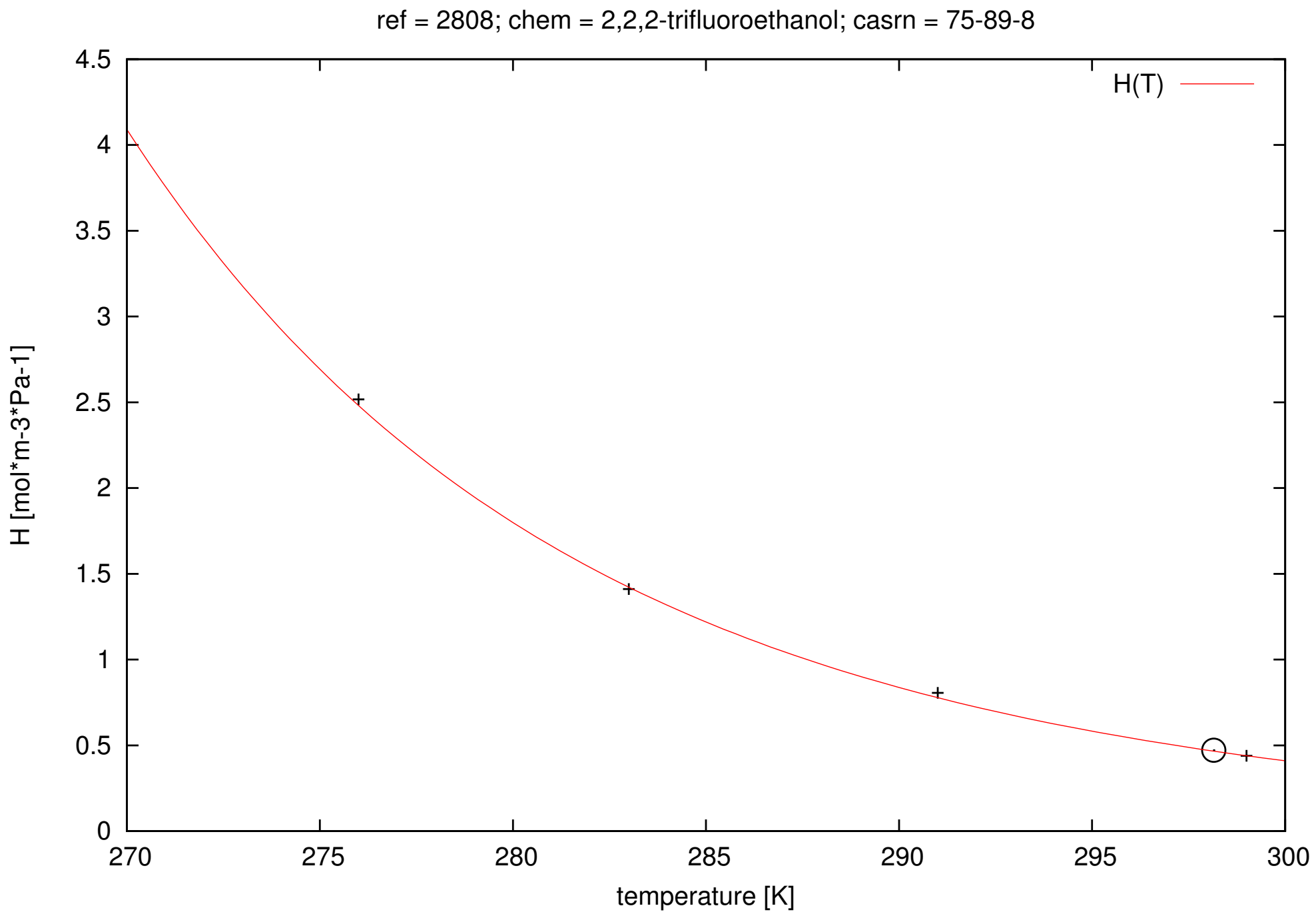

ref = 2645; chem = ethyl {tert}-butyl ether; casrn = 637-92-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
270
275
280
285
290
295
300

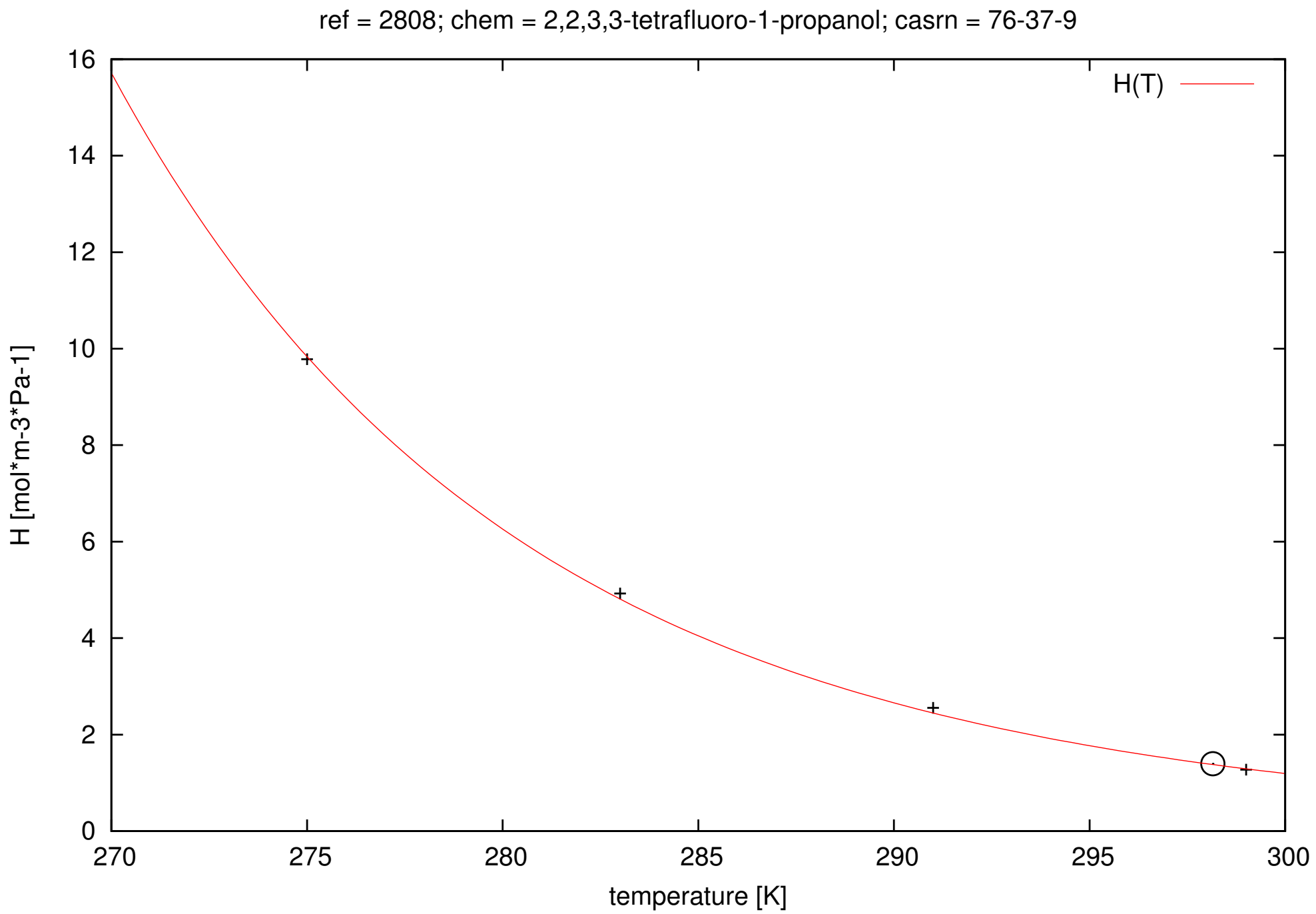

ref = 2645; chem = benzene; casrn = 71-43-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
270
275
280
285
290
295
300

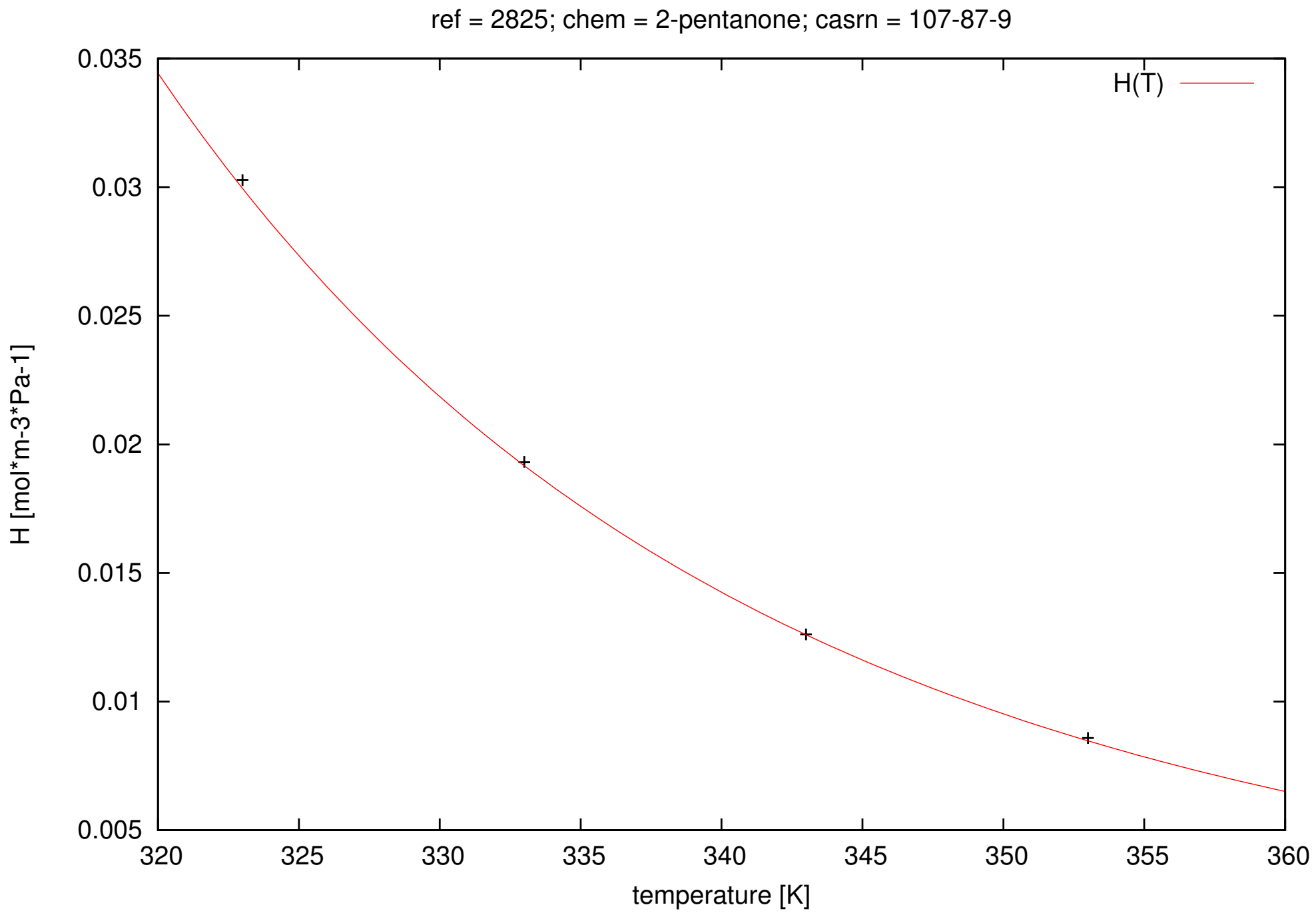

ref = 2645; chem = 1,2-dimethylbenzene; casrn = 95-47-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
270
275
280
285
290
295
300

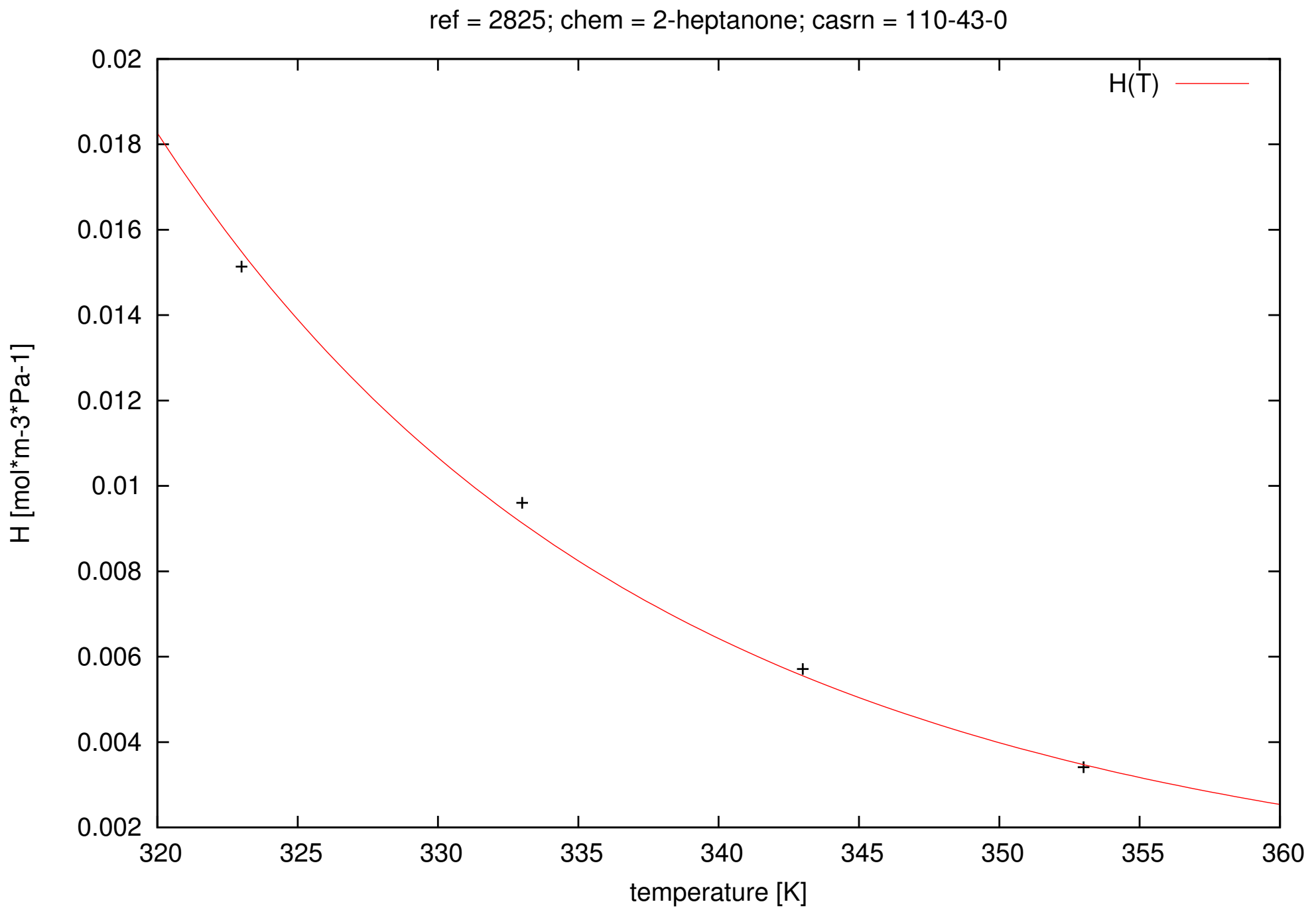

ref = 2647; chem = methyl {tert}-butyl ether; casrn = 1634-04-4
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.07
0.06
0.05
0.04
0.03
0.02
0.01
270
275
280
285
290
295
300

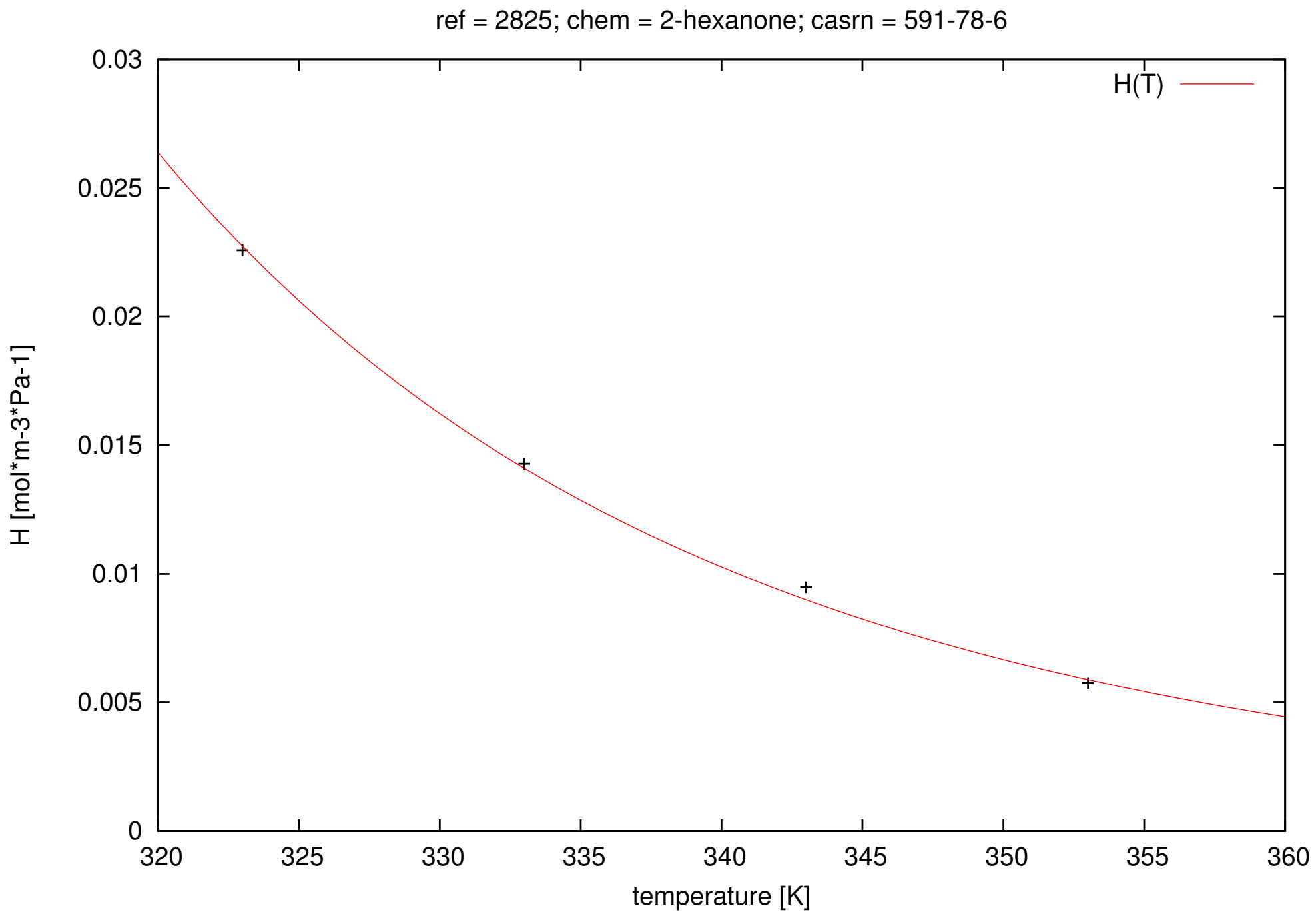

ref = 2808; chem = 2,2,3,3,3-pentafluoro-1-propanol; casrn = 422-05-9
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.7
0.6
0.5
0.4
0.3
0.2
0.1
270
275
280
285
290
295
300

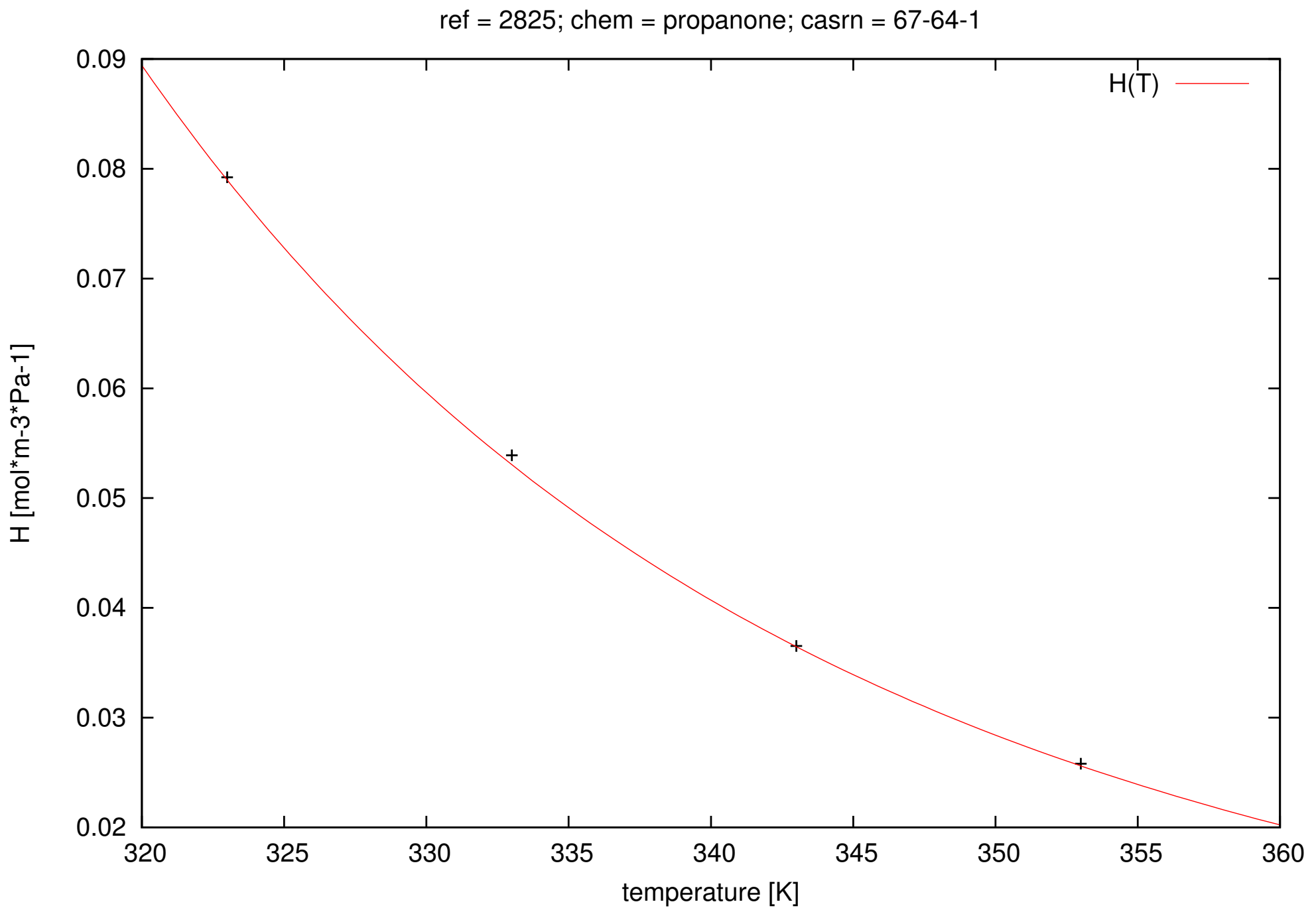

ref = 2808; chem = 2,2,2-trifluoroethanol; casrn = 75-89-8
H(T)
H [mol*m-3*Pa-1]
temperature [K]
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
270
275
280
285
290
295
300

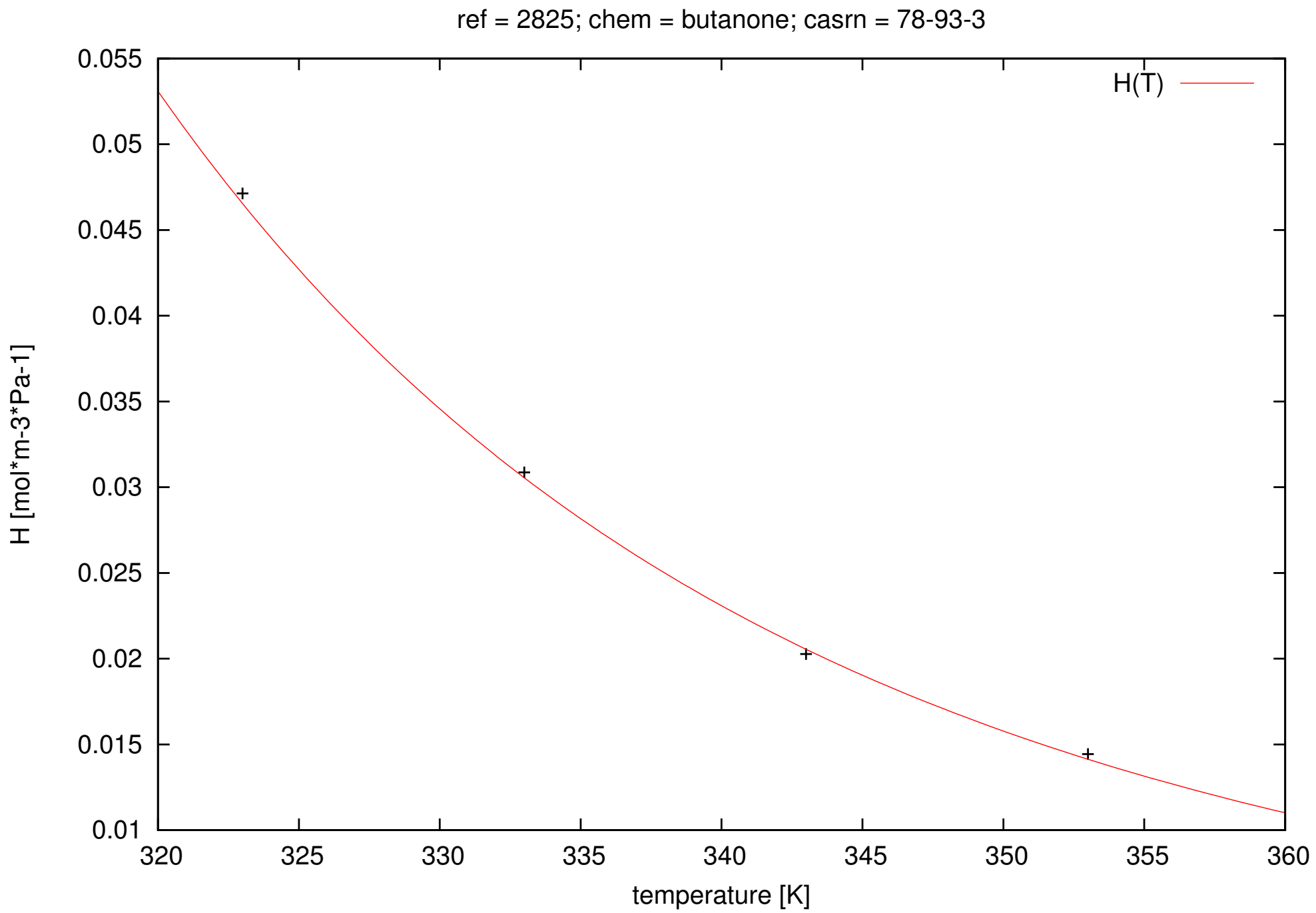

ref = 2808; chem = 2,2,3,3-tetrafluoro-1-propanol; casrn = 76-37-9
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0
2
4
6
8
10
12
14
16
270
275
280
285
290
295
300

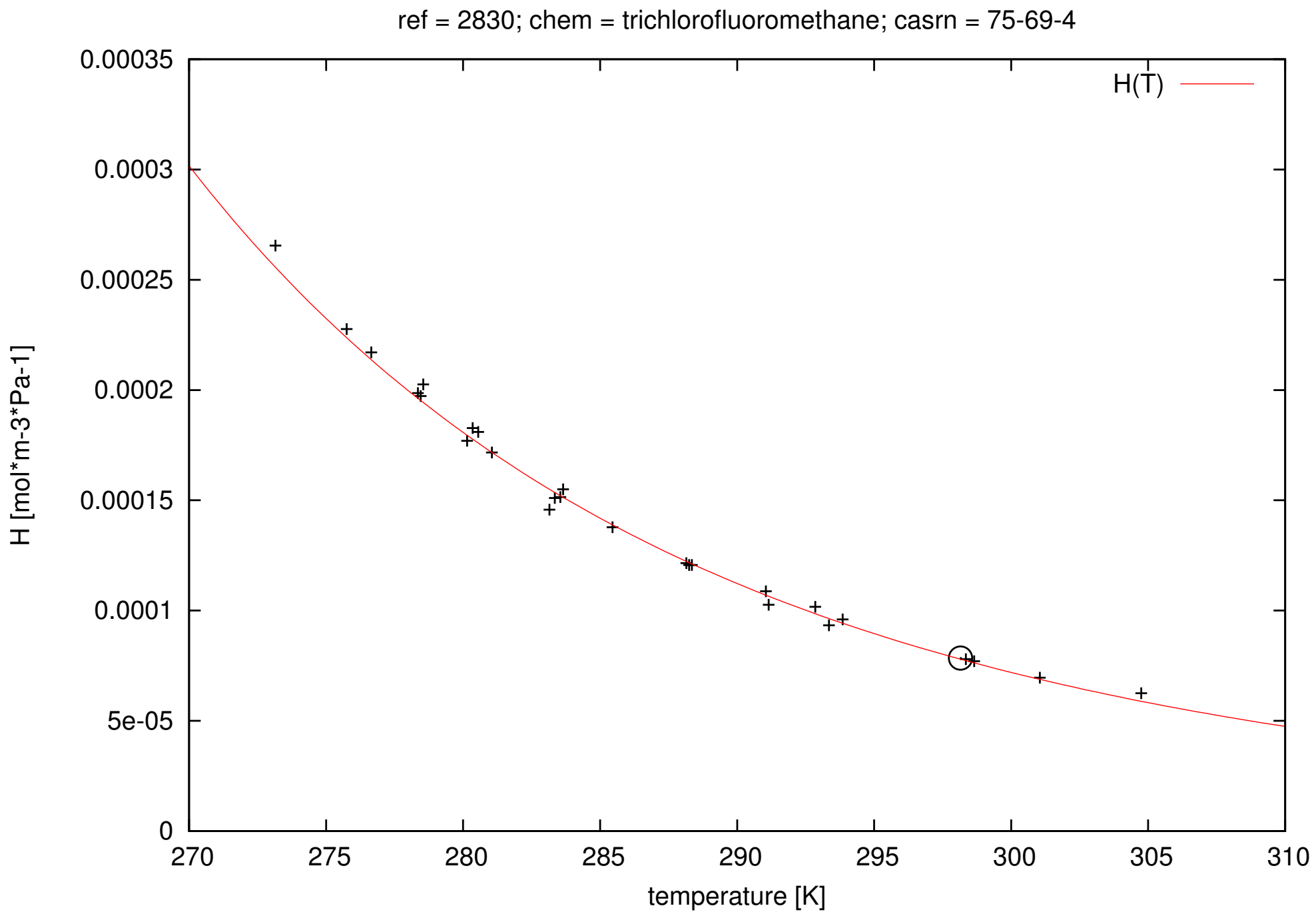

ref = 2825; chem = 2-pentanone; casrn = 107-87-9
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.035
0.03
0.025
0.02
0.015
0.01
0.005
320
325
330
335
340
345
350
355
360

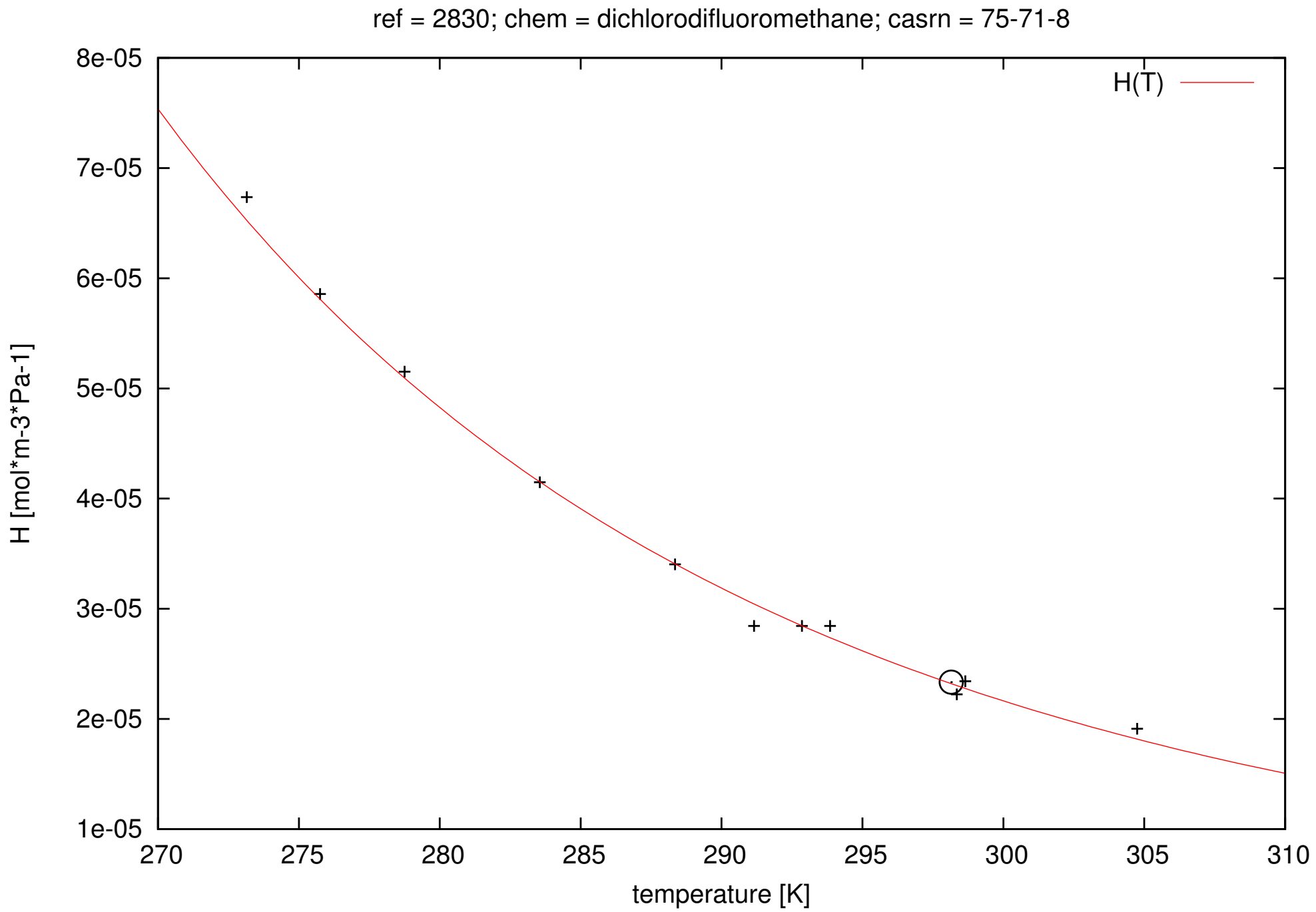

ref = 2825; chem = 2-heptanone; casrn = 110-43-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
320
325
330
335
340
345
350
355
360

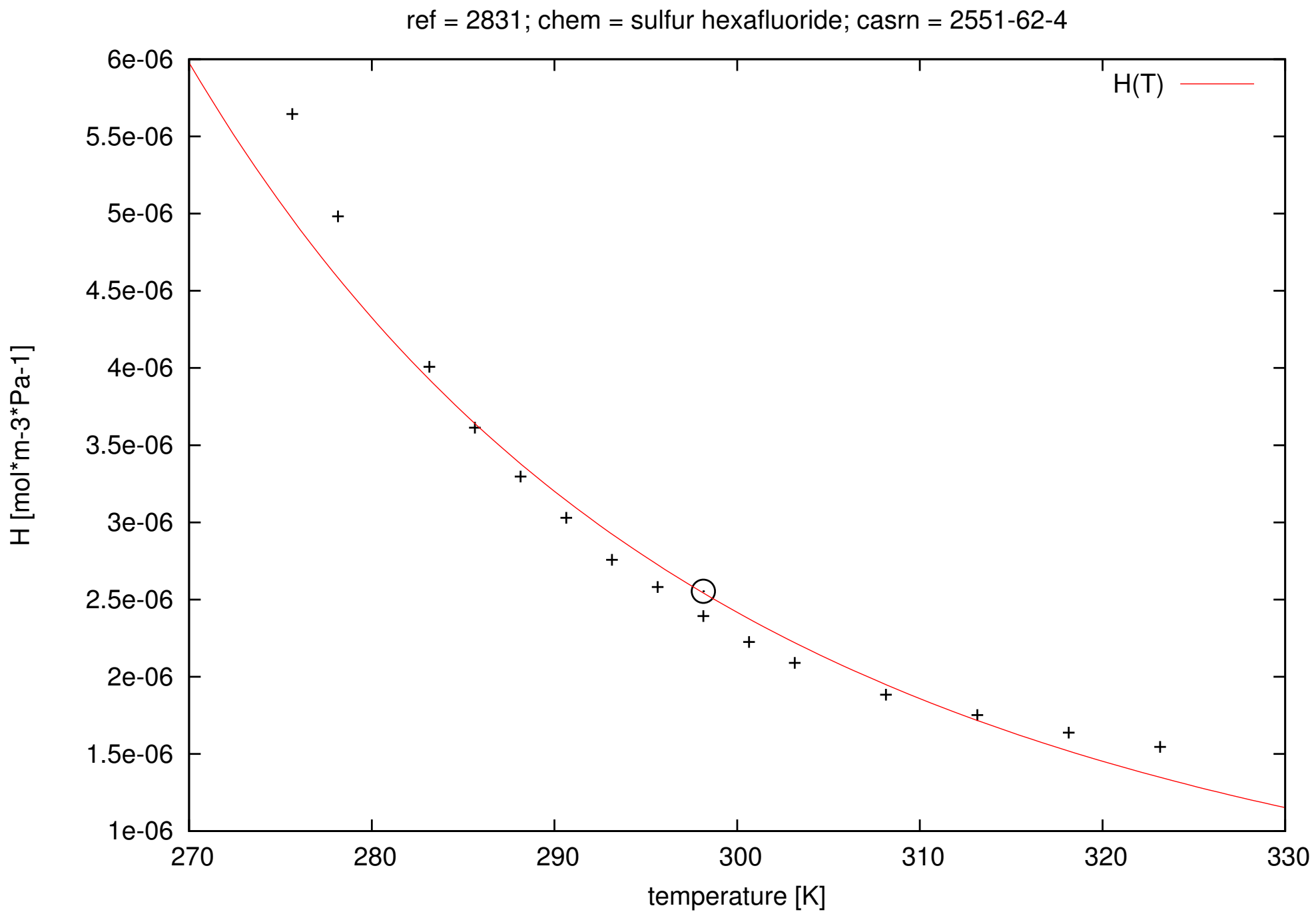

ref = 2825; chem = 2-hexanone; casrn = 591-78-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.03
0.025
0.02
0.015
0.01
0.005
0
320
325
330
335
340
345
350
355
360

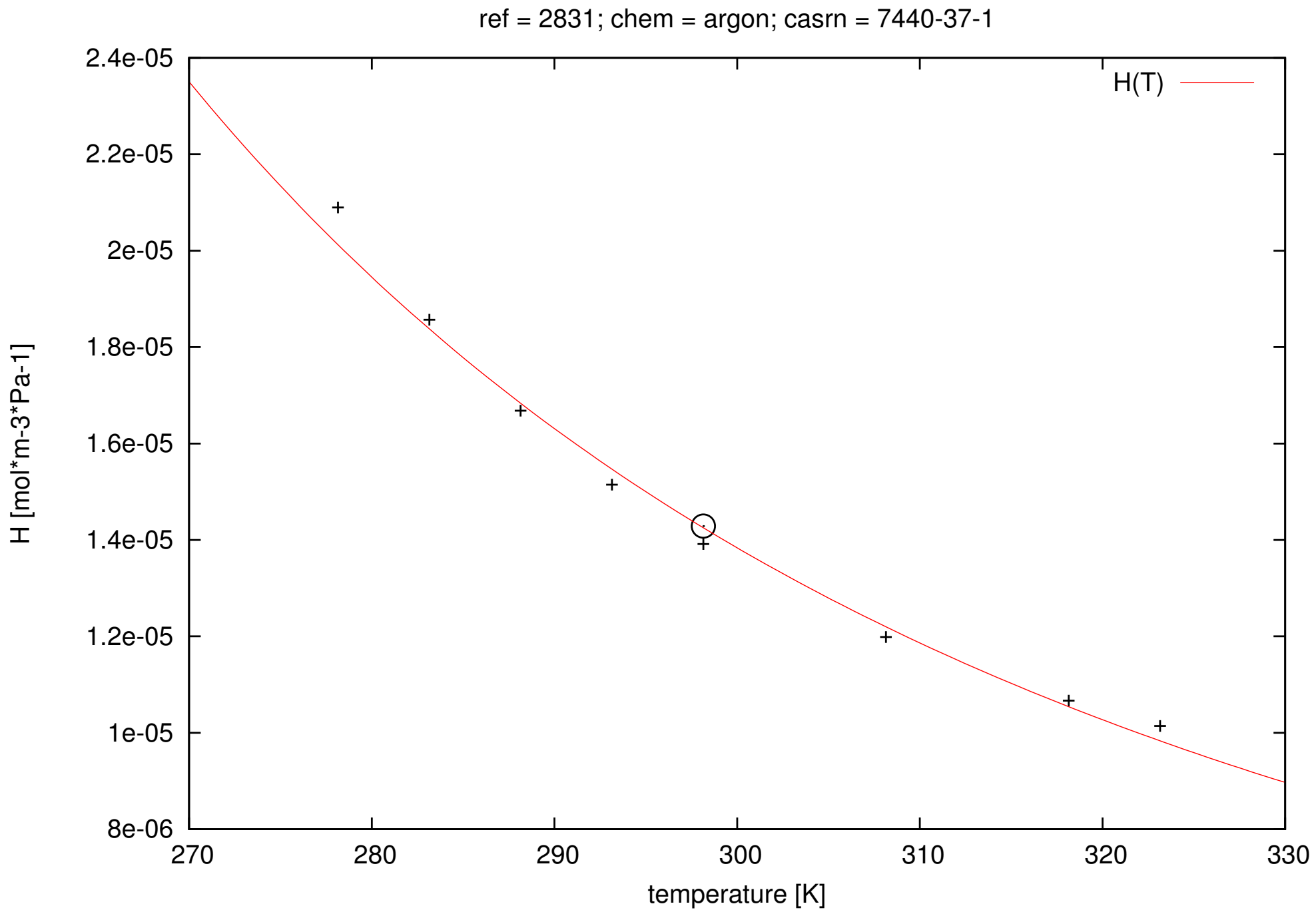

ref = 2825; chem = propanone; casrn = 67-64-1
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
320
325
330
335
340
345
350
355
360

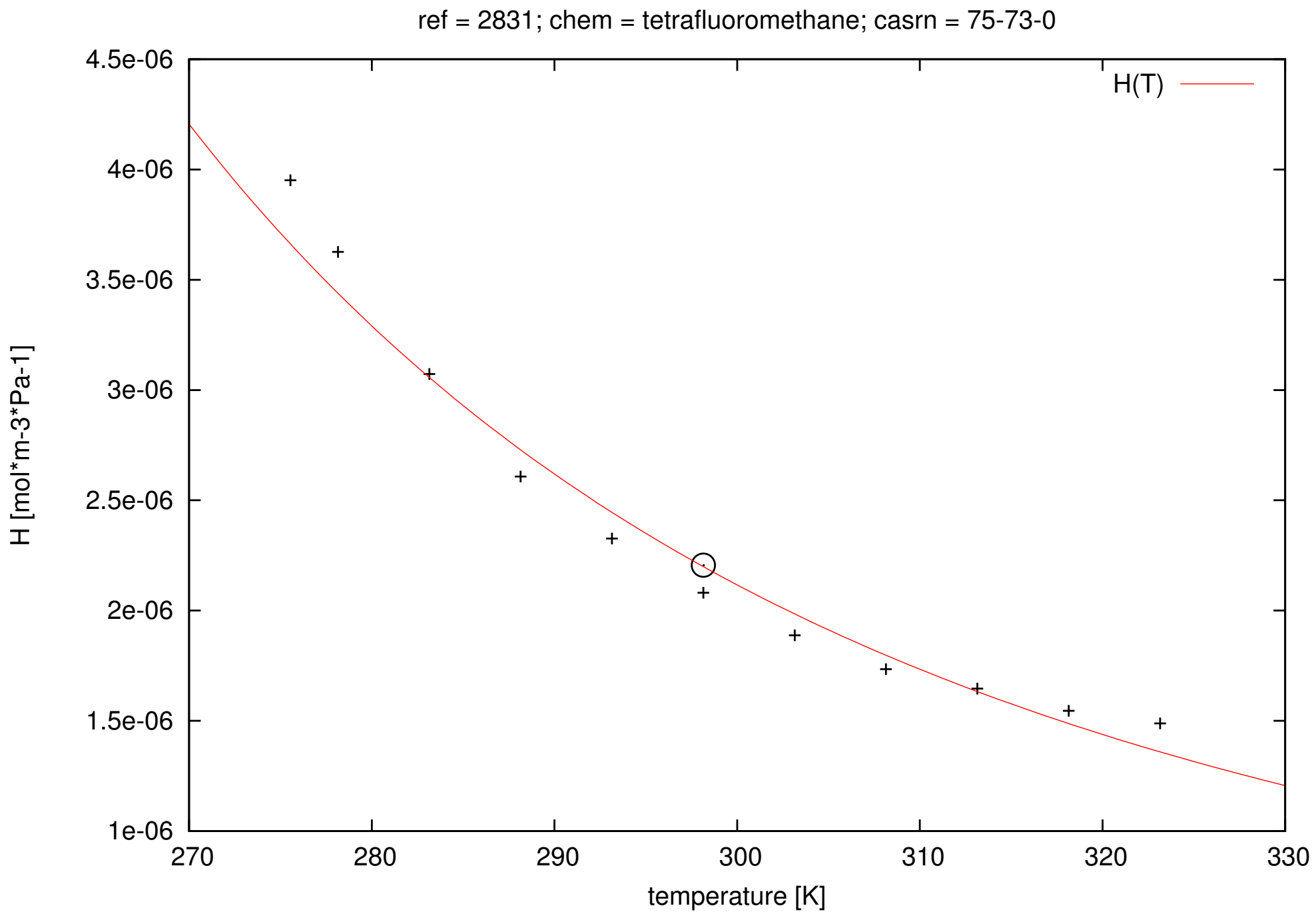

ref = 2825; chem = butanone; casrn = 78-93-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
320
325
330
335
340
345
350
355
360

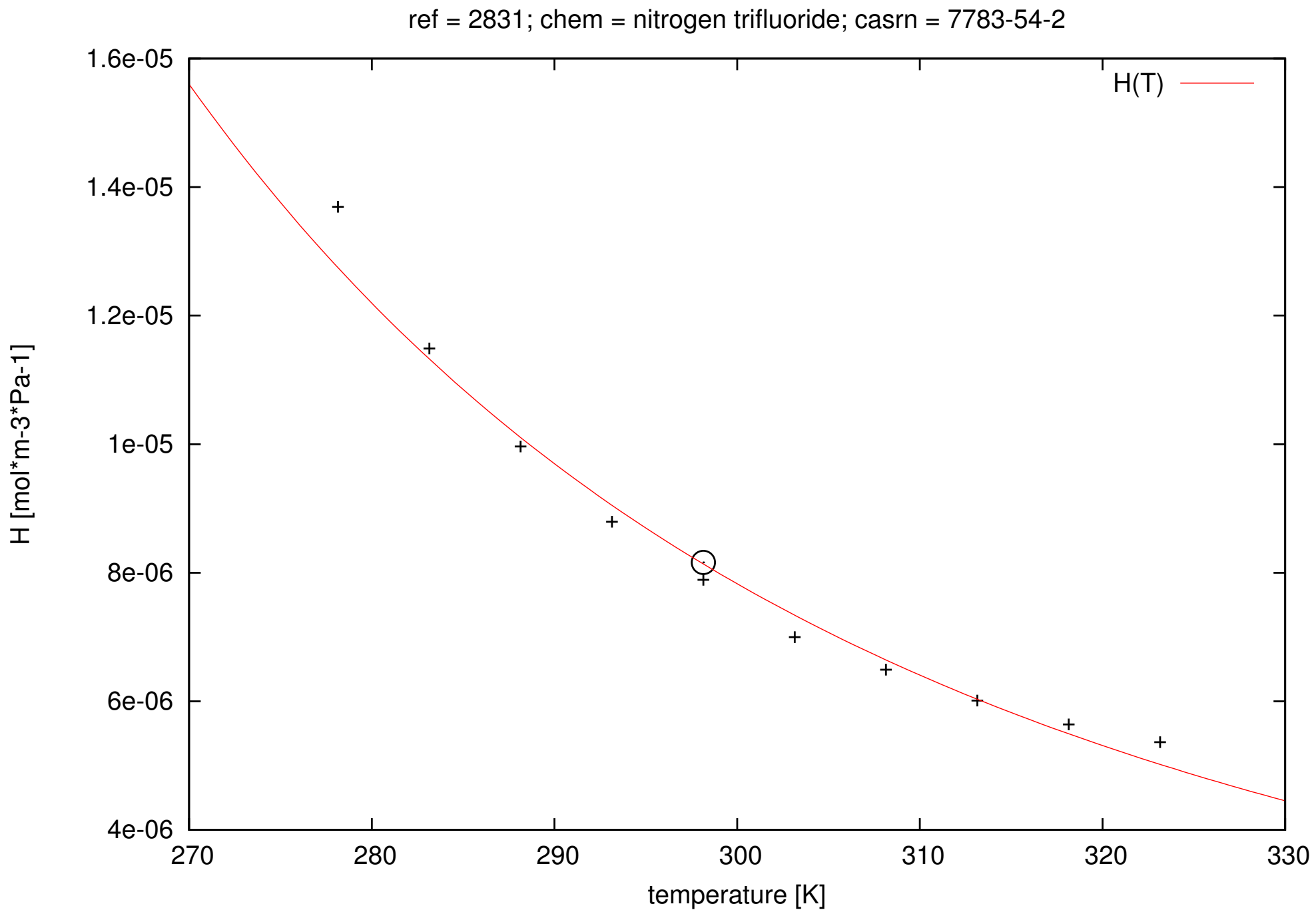

ref = 2830; chem = trichlorofluoromethane; casrn = 75-69-4
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.00035
0.0003
0.00025
0.0002
0.00015
0.0001
5e-05
0
270
275
280
285
290
295
300
305
310

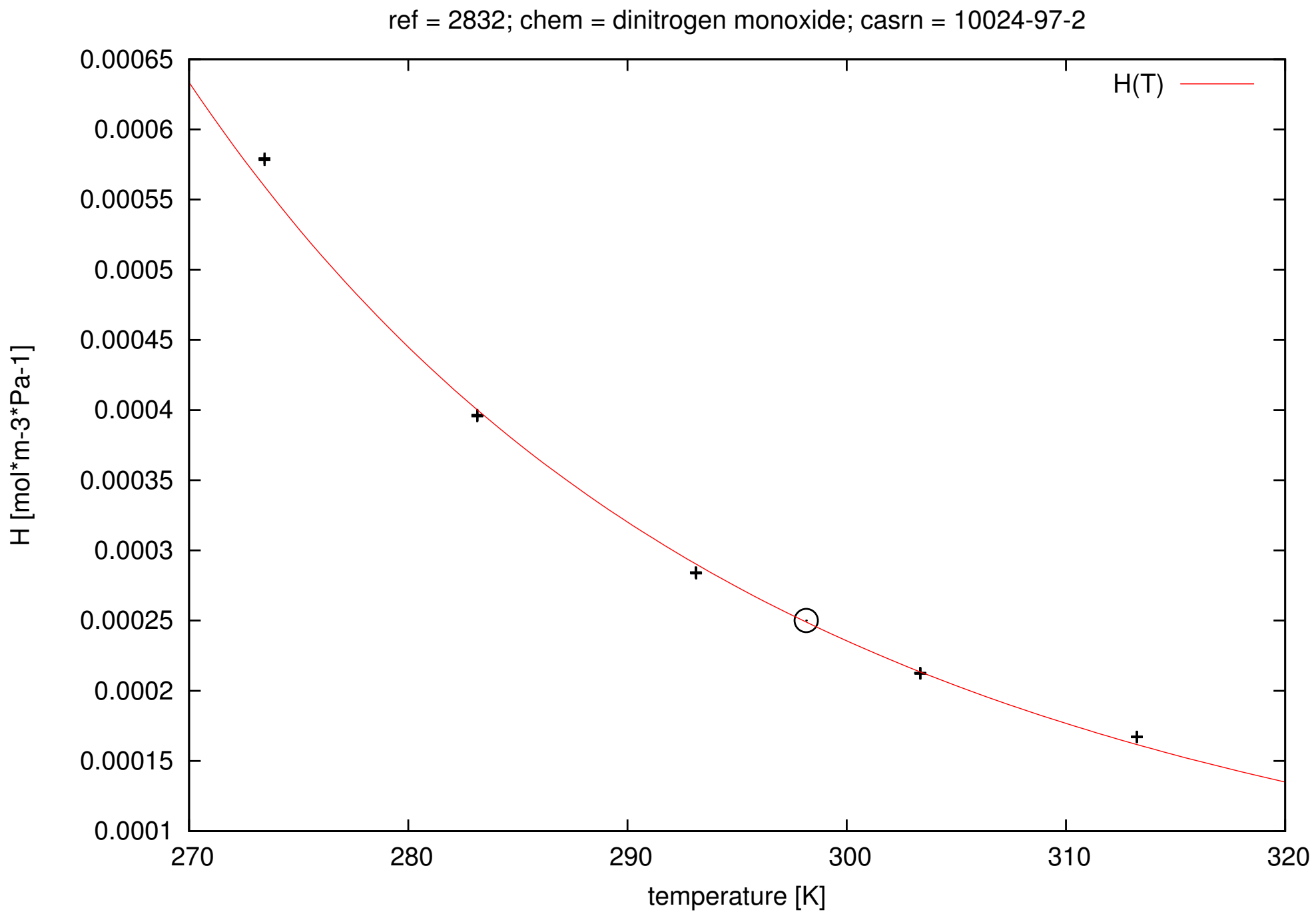

ref = 2830; chem = dichlorodifluoromethane; casrn = 75-71-8
H(T)
H [mol*m-3*Pa-1]
temperature [K]
8e-05
7e-05
6e-05
5e-05
4e-05
3e-05
2e-05
1e-05
270
275
280
285
290
295
300
305
310

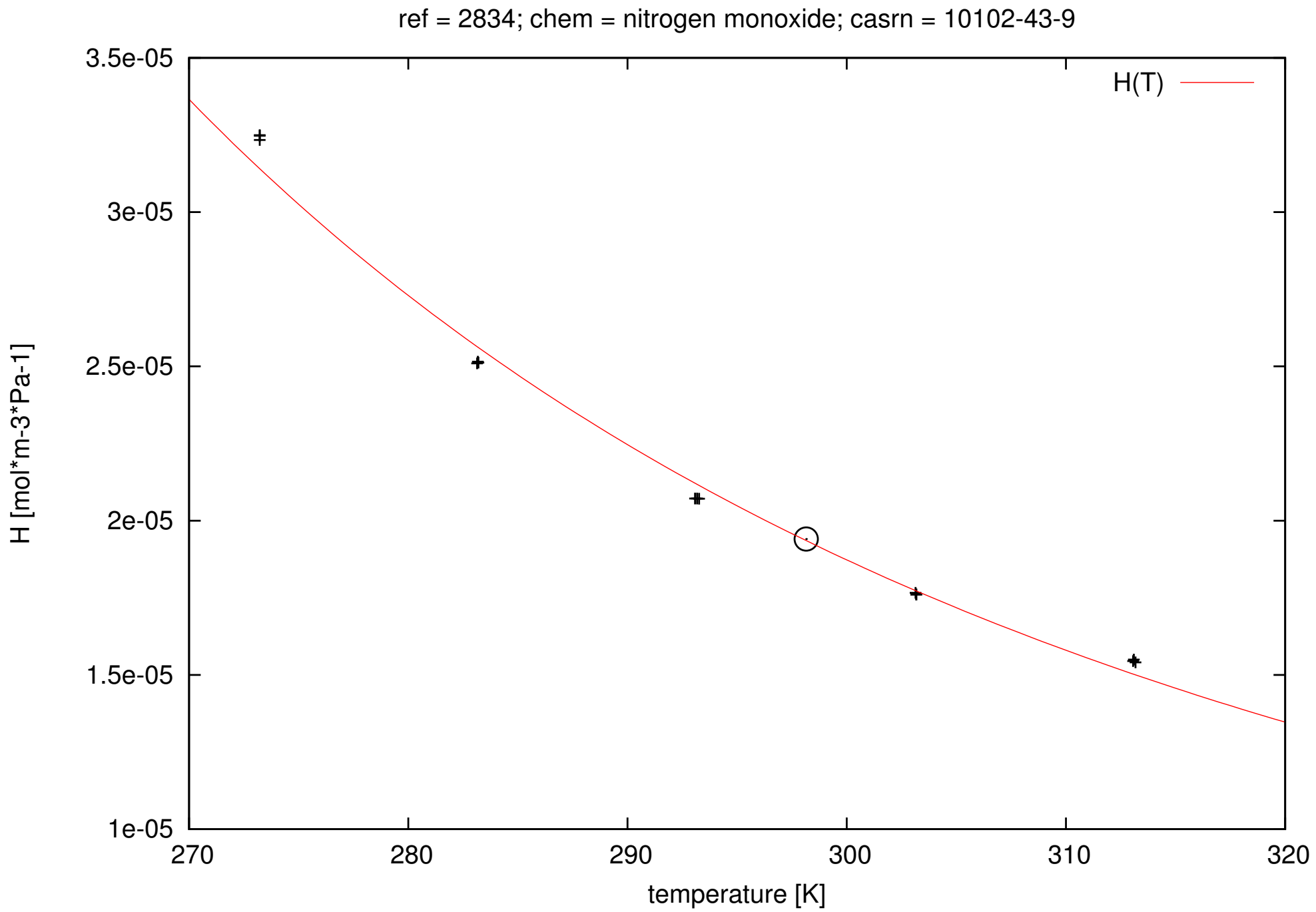

ref = 2831; chem = sulfur hexafluoride; casrn = 2551-62-4
H(T)
H [mol*m-3*Pa-1]
temperature [K]
6e-06
5.5e-06
5e-06
4.5e-06
4e-06
3.5e-06
3e-06
2.5e-06
2e-06
1.5e-06
1e-06
270
280
290
300
310
320
330

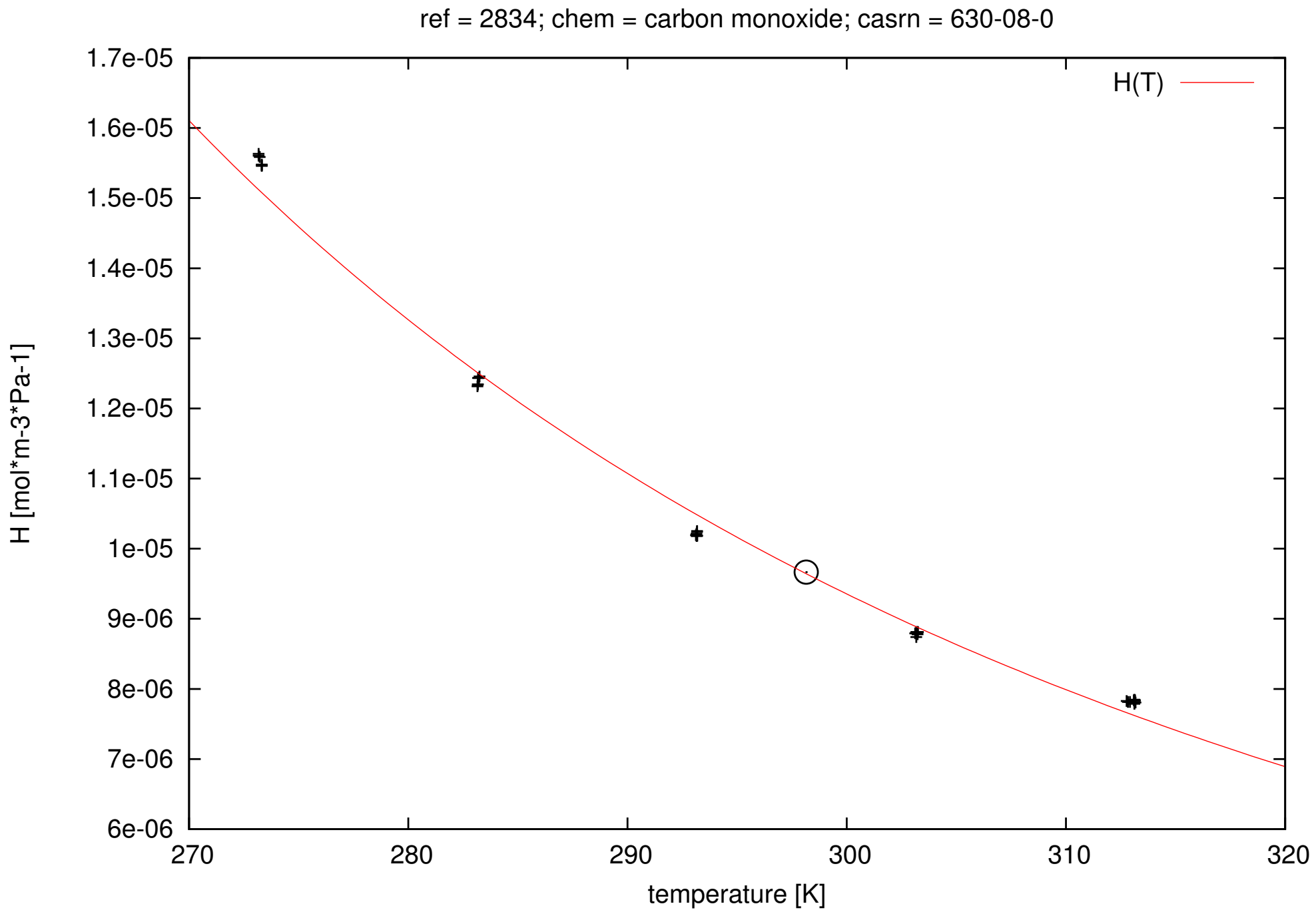

ref = 2831; chem = argon; casrn = 7440-37-1
H(T)
H [mol*m-3*Pa-1]
temperature [K]
2.4e-05
2.2e-05
2e-05
1.8e-05
1.6e-05
1.4e-05
1.2e-05
1e-05
8e-06
270
280
290
300
310
320
330

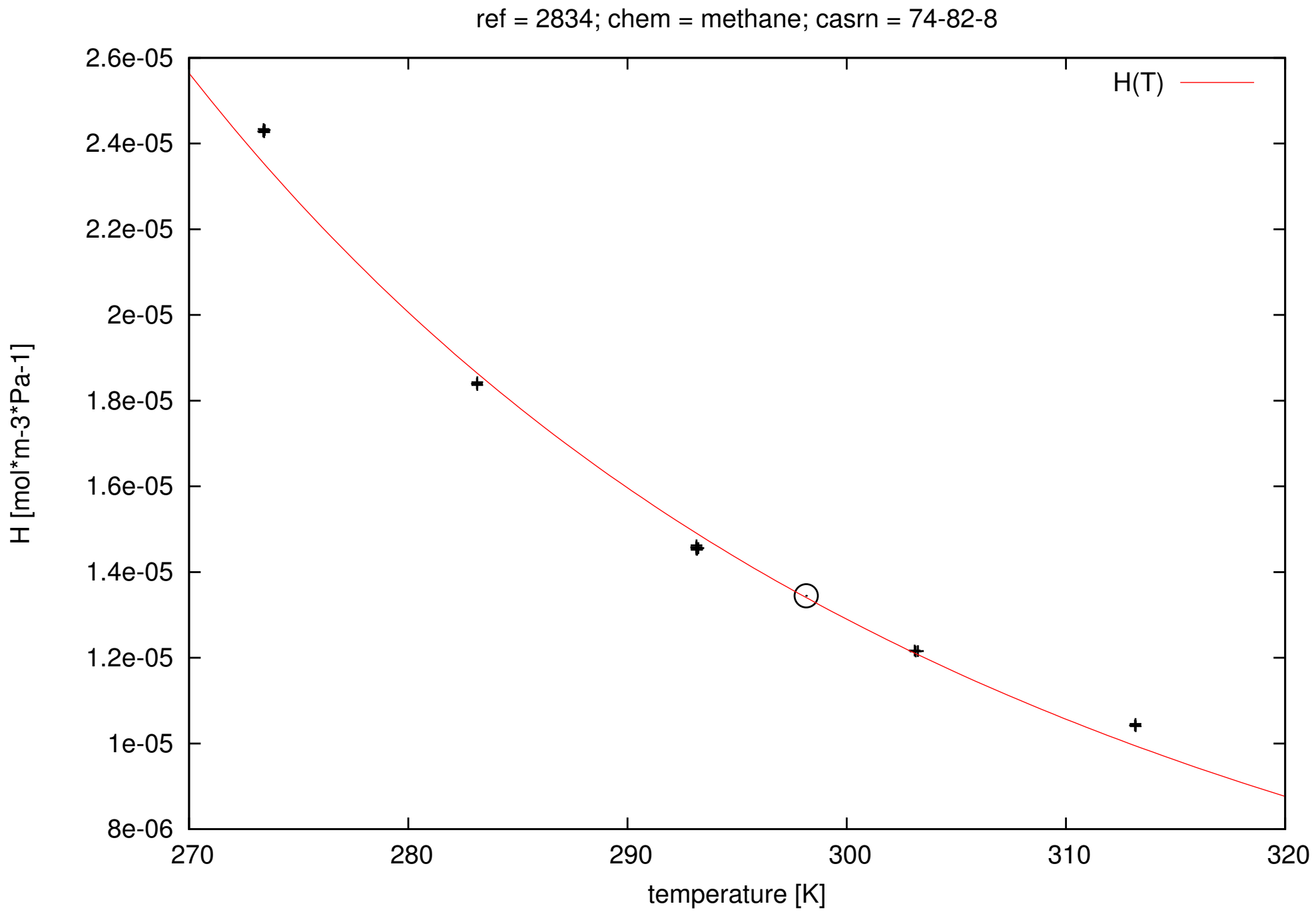

ref = 2831; chem = tetrafluoromethane; casrn = 75-73-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
4.5e-06
4e-06
3.5e-06
3e-06
2.5e-06
2e-06
1.5e-06
1e-06
270
280
290
300
310
320
330

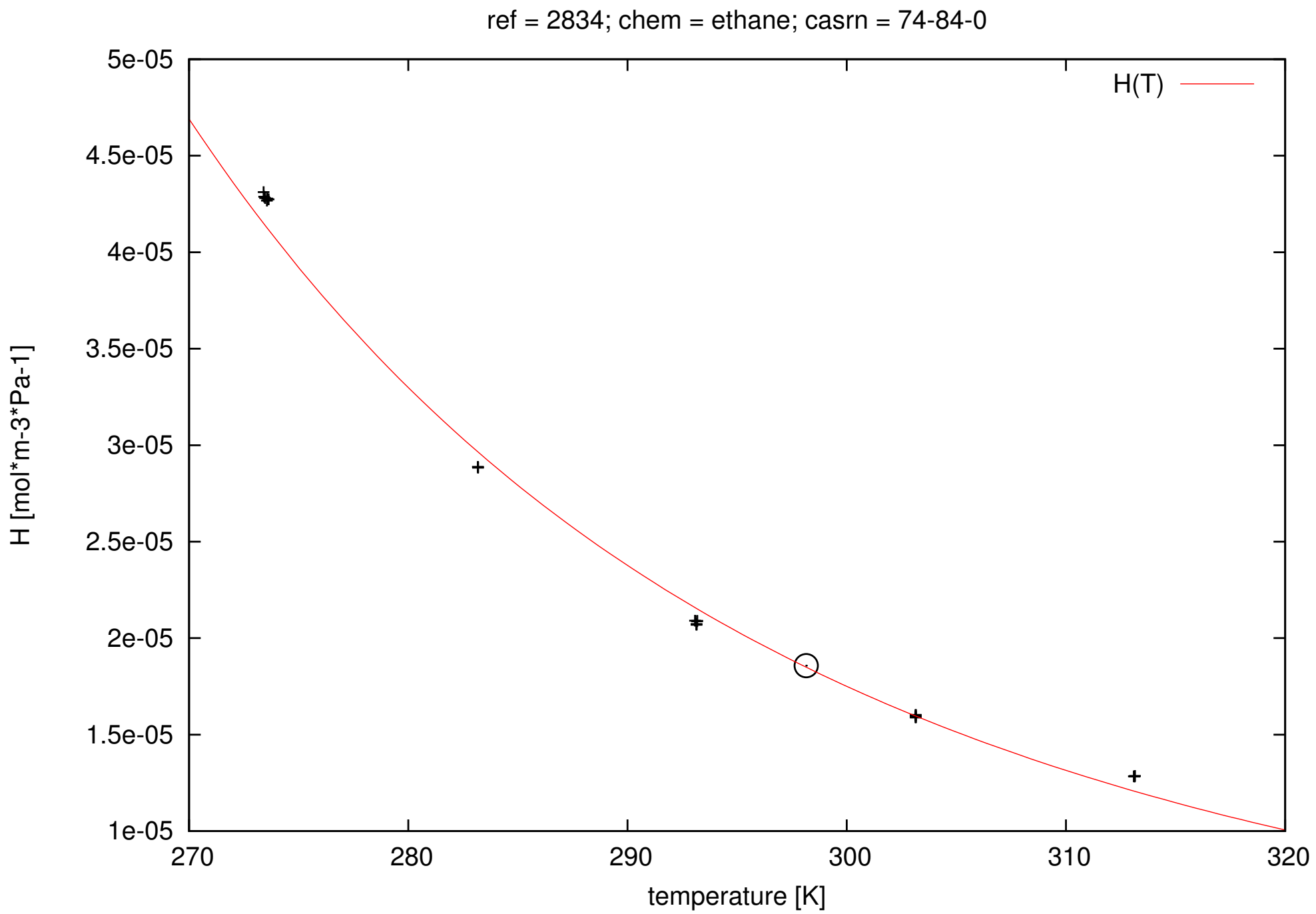

ref = 2831; chem = nitrogen trifluoride; casrn = 7783-54-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
1.6e-05
1.4e-05
1.2e-05
1e-05
8e-06
6e-06
4e-06
270
280
290
300
310
320
330

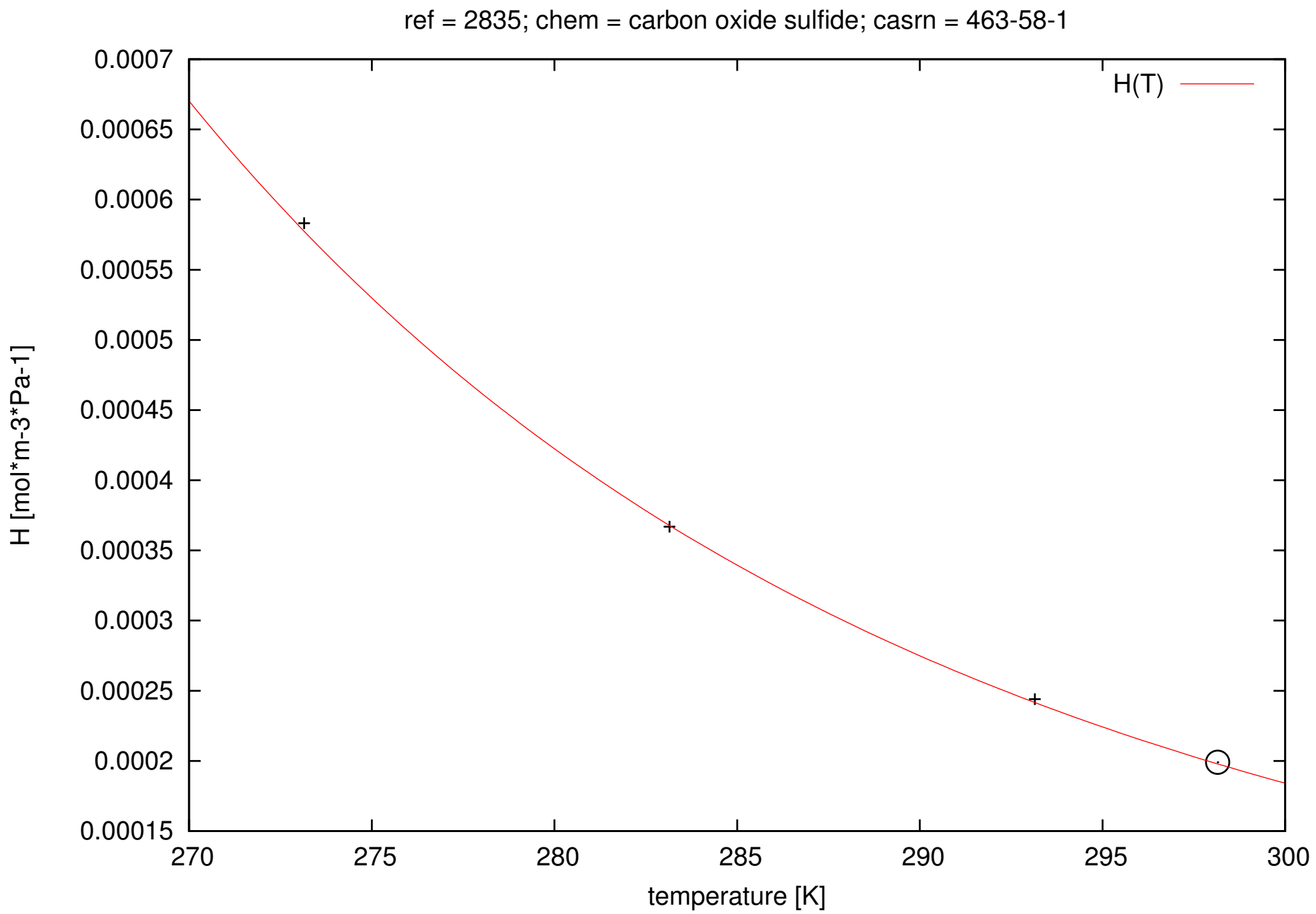

ref = 2832; chem = dinitrogen monoxide; casrn = 10024-97-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.00065
0.0006
0.00055
0.0005
0.00045
0.0004
0.00035
0.0003
0.00025
0.0002
0.00015
0.0001
270
280
290
300
310
320

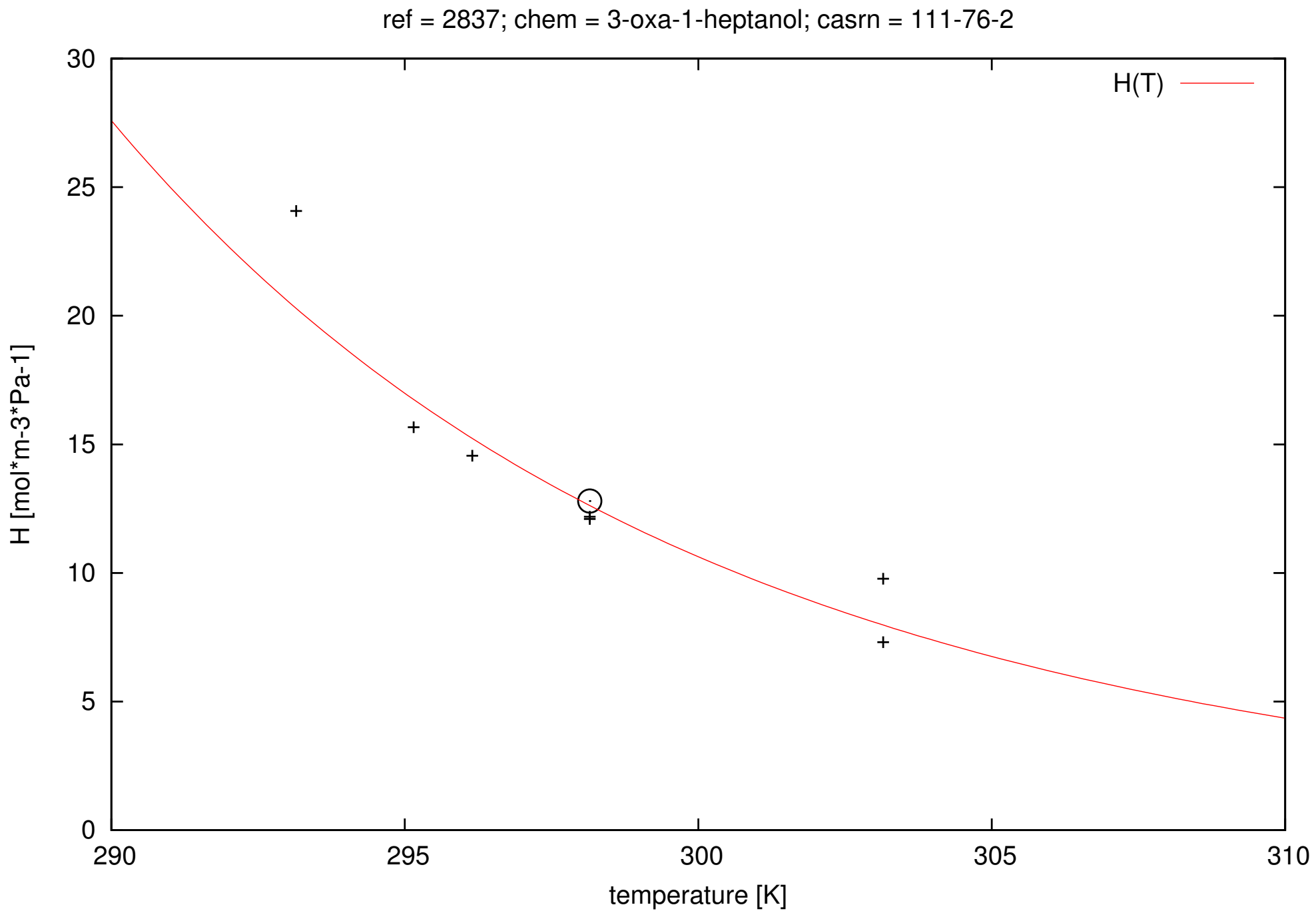

ref = 2834; chem = nitrogen monoxide; casrn = 10102-43-9
H(T)
H [mol*m-3*Pa-1]
temperature [K]
3.5e-05
3e-05
2.5e-05
2e-05
1.5e-05
1e-05
270
280
290
300
310
320

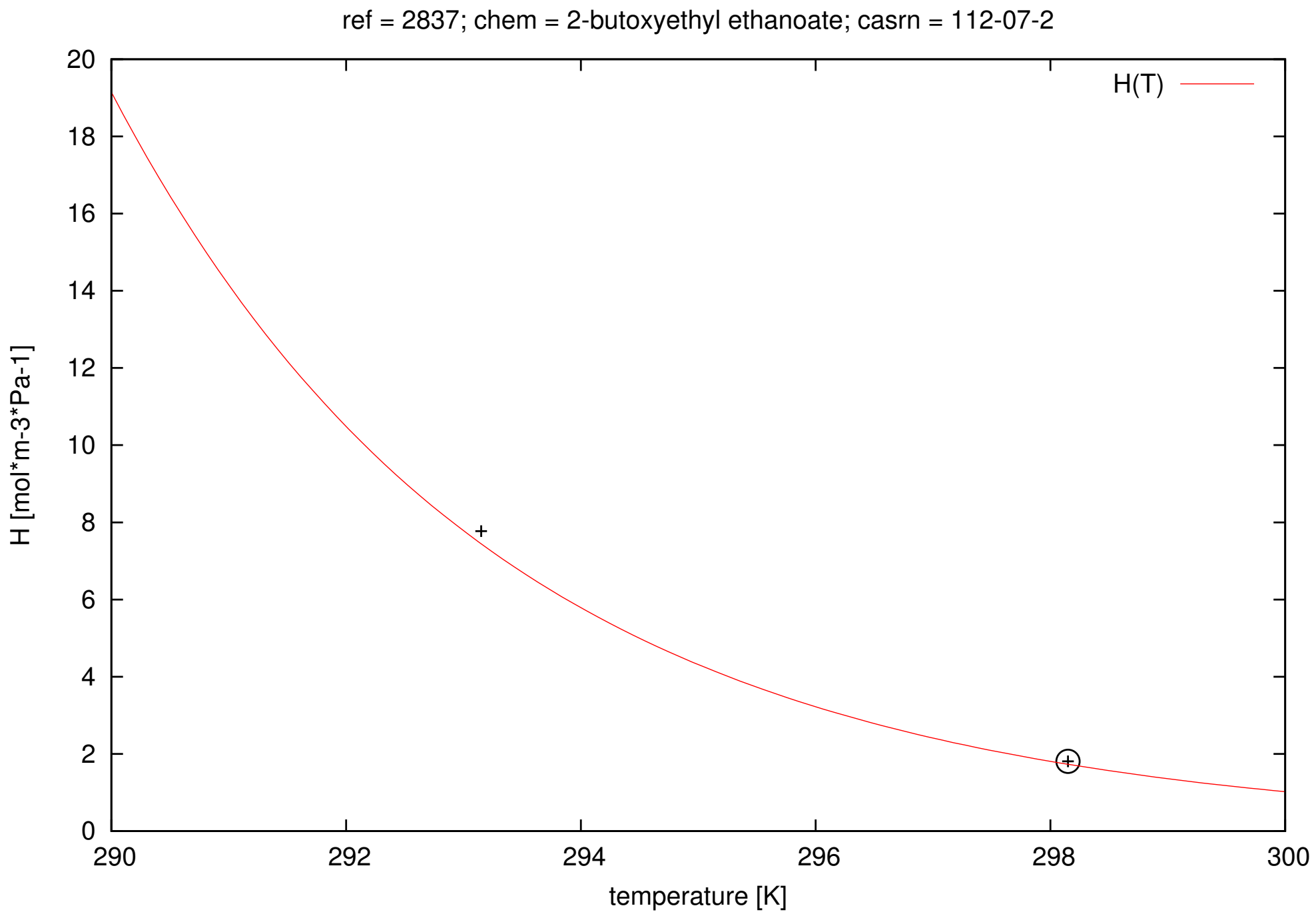

ref = 2834; chem = carbon monoxide; casrn = 630-08-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
1.7e-05
1.6e-05
1.5e-05
1.4e-05
1.3e-05
1.2e-05
1.1e-05
1e-05
9e-06
8e-06
7e-06
6e-06
270
280
290
300
310
320

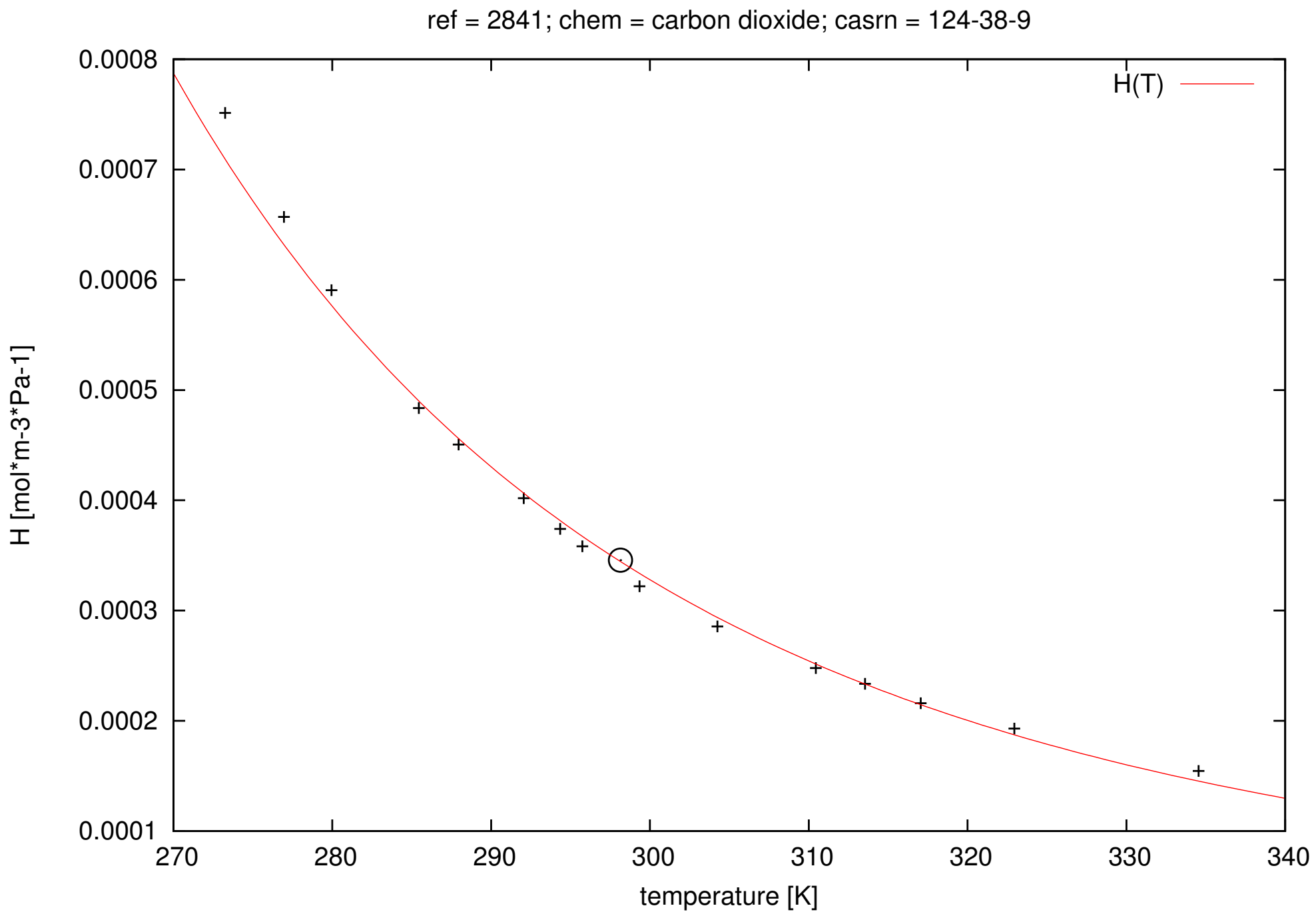

ref = 2834; chem = methane; casrn = 74-82-8
H(T)
H [mol*m-3*Pa-1]
temperature [K]
2.6e-05
2.4e-05
2.2e-05
2e-05
1.8e-05
1.6e-05
1.4e-05
1.2e-05
1e-05
8e-06
270
280
290
300
310
320

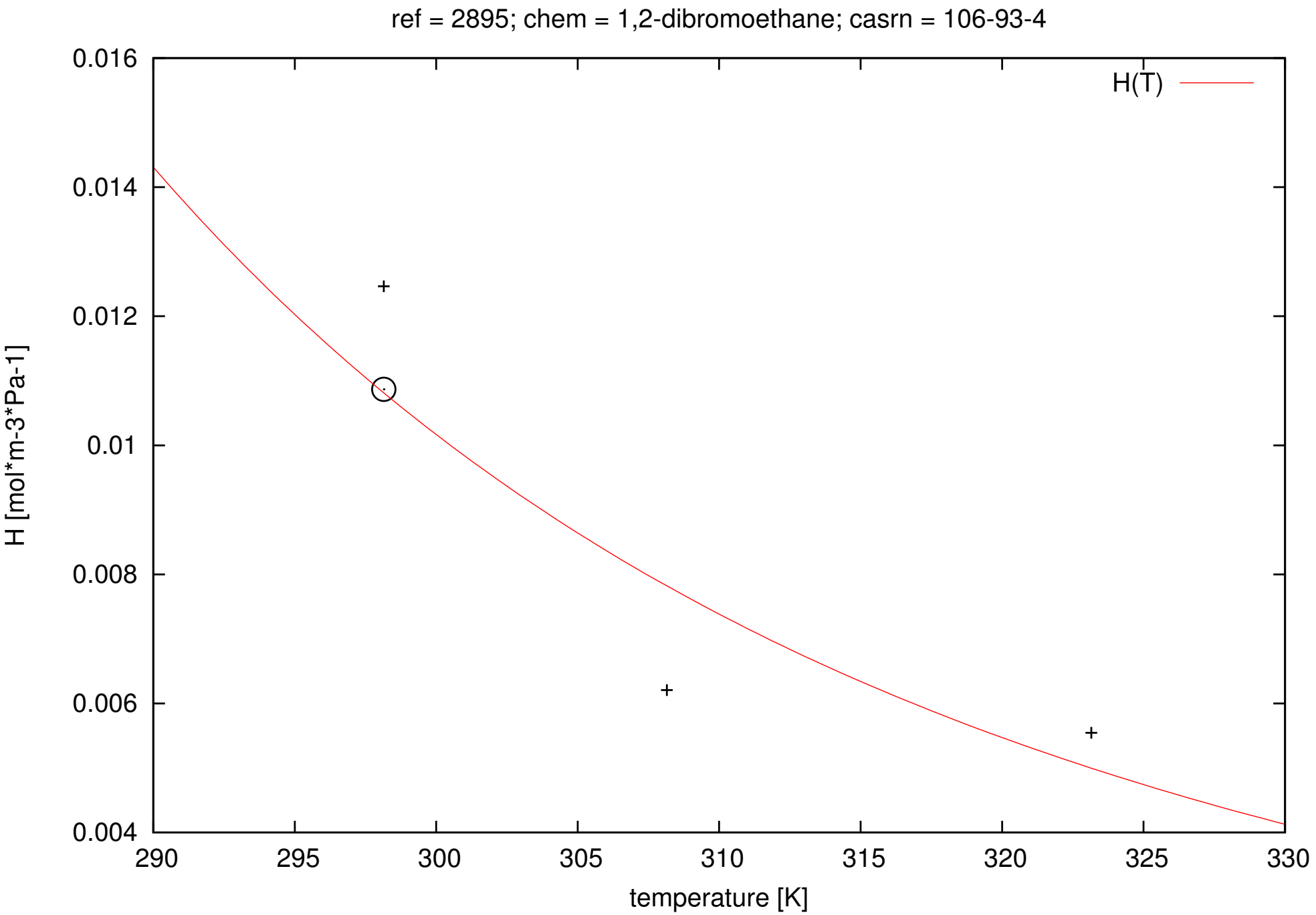

ref = 2834; chem = ethane; casrn = 74-84-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
5e-05
4.5e-05
4e-05
3.5e-05
3e-05
2.5e-05
2e-05
1.5e-05
1e-05
270
280
290
300
310
320

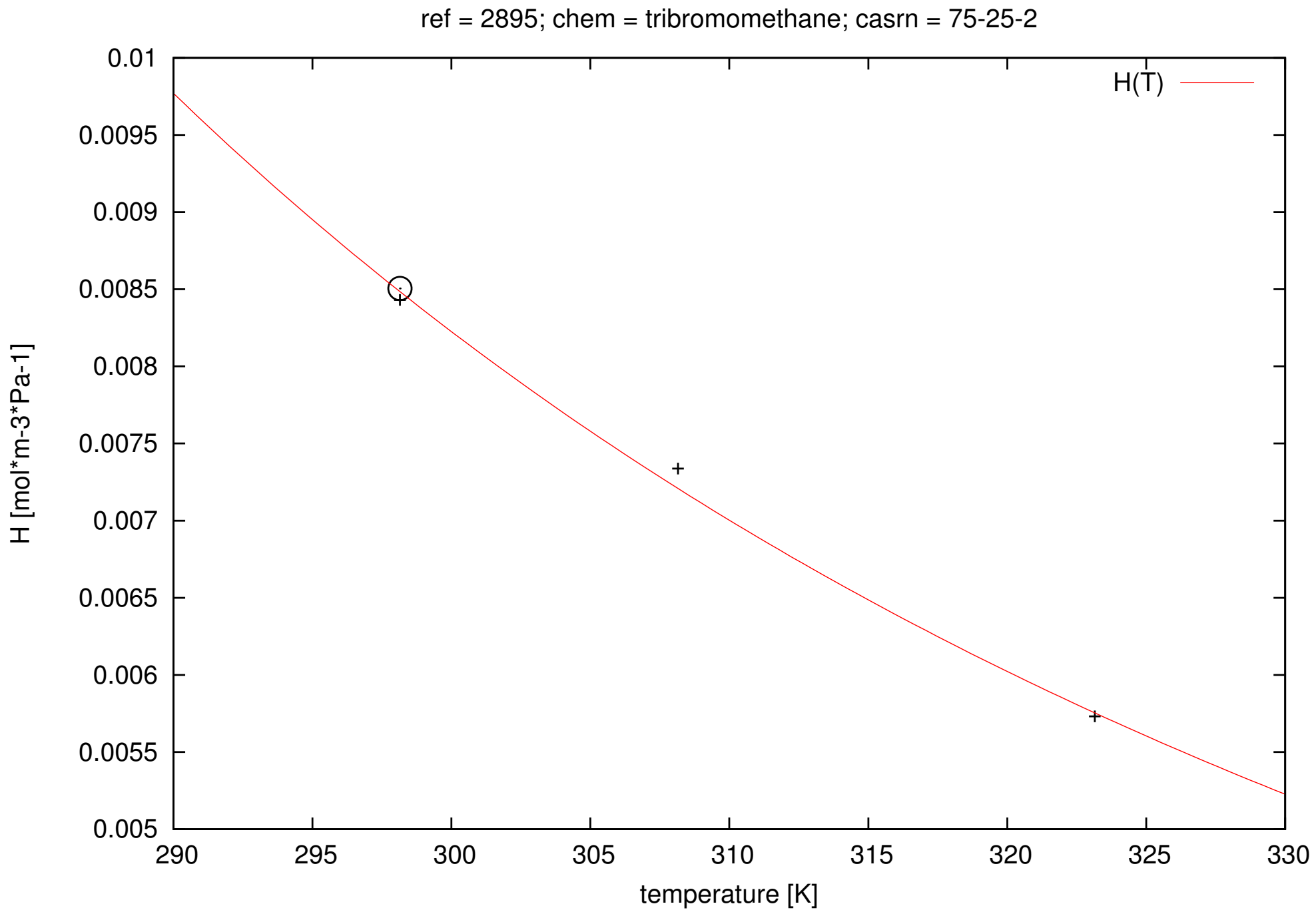

ref = 2835; chem = carbon oxide sulfide; casrn = 463-58-1
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0007
0.00065
0.0006
0.00055
0.0005
0.00045
0.0004
0.00035
0.0003
0.00025
0.0002
0.00015
270
275
280
285
290
295
300

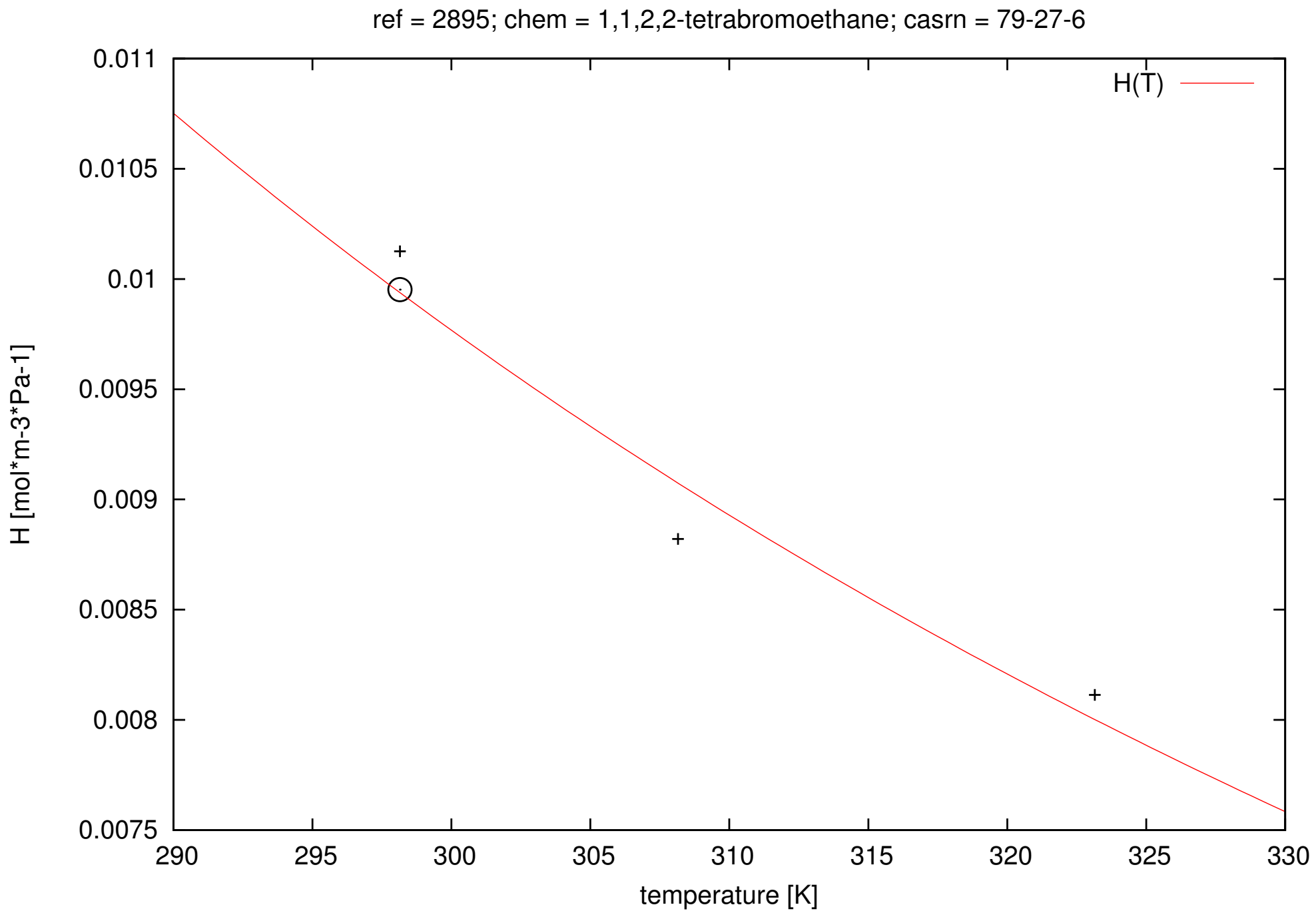

ref = 2837; chem = 3-oxa-1-heptanol; casrn = 111-76-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0
5
10
15
20
25
30
290
295
300
305
310

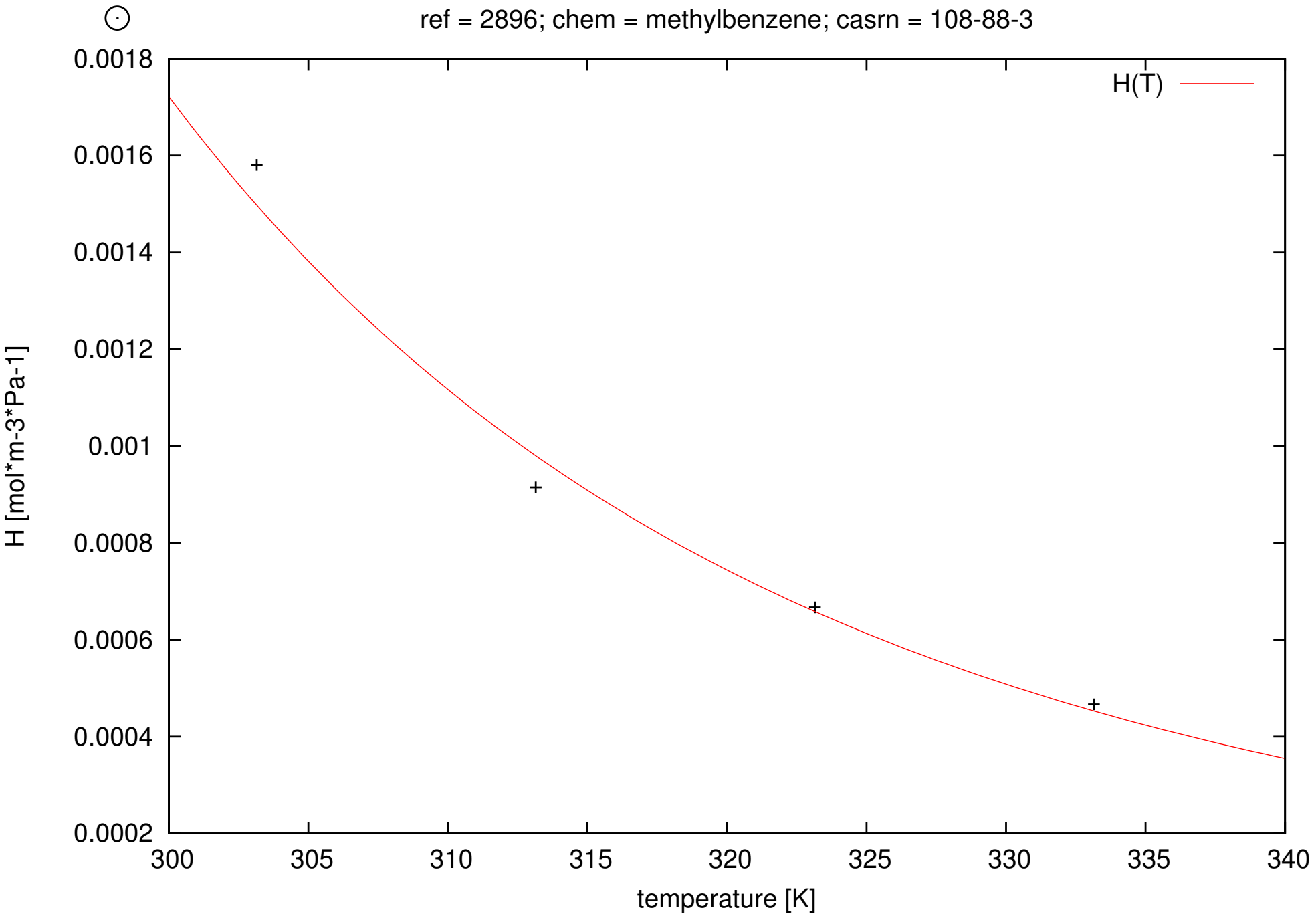

ref = 2837; chem = 2-butoxyethyl ethanoate; casrn = 112-07-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0
2
4
6
8
10
12
14
16
18
20
290
292
294
296
298
300

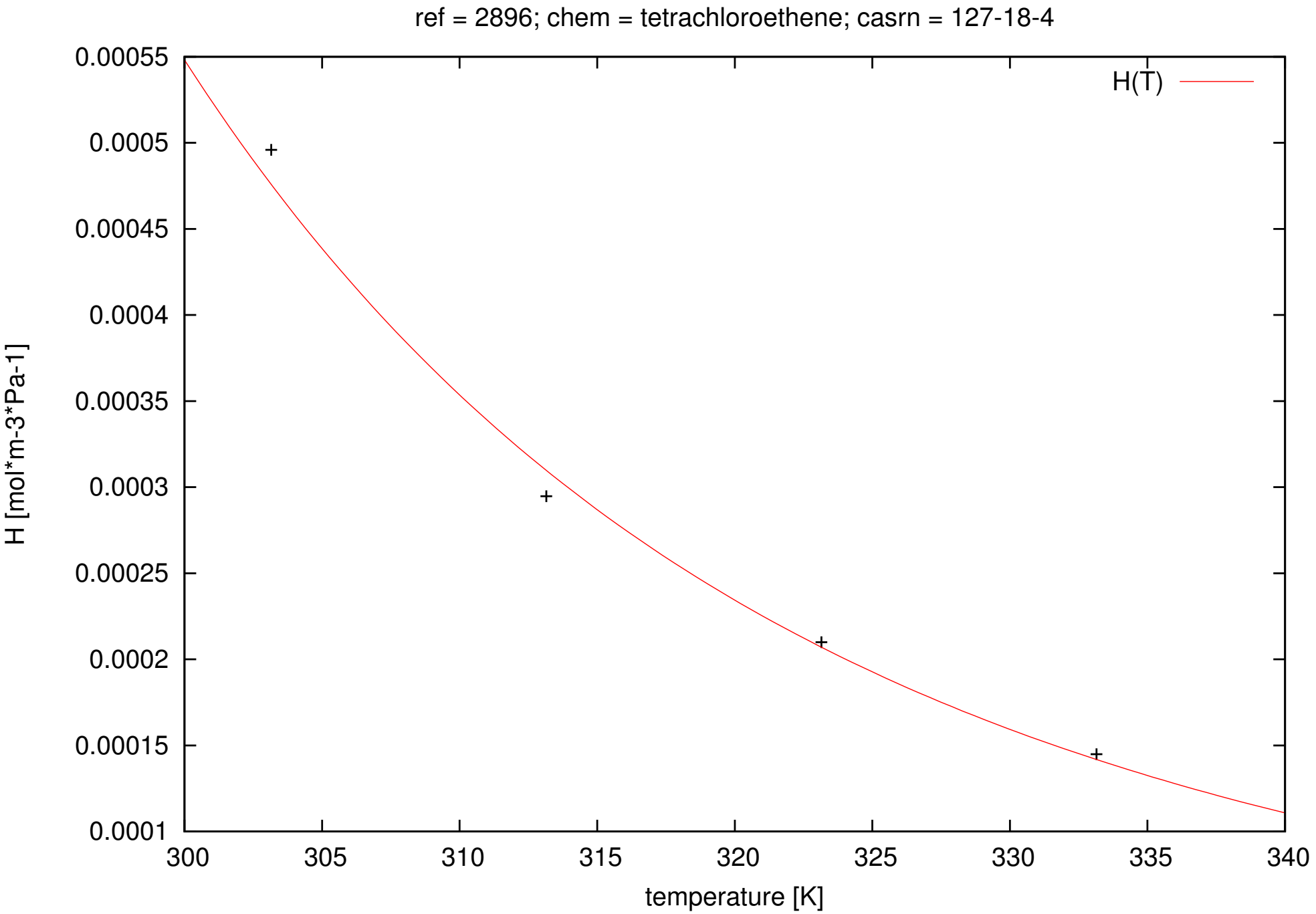

ref = 2841; chem = carbon dioxide; casrn = 124-38-9
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
270
280
290
300
310
320
330
340

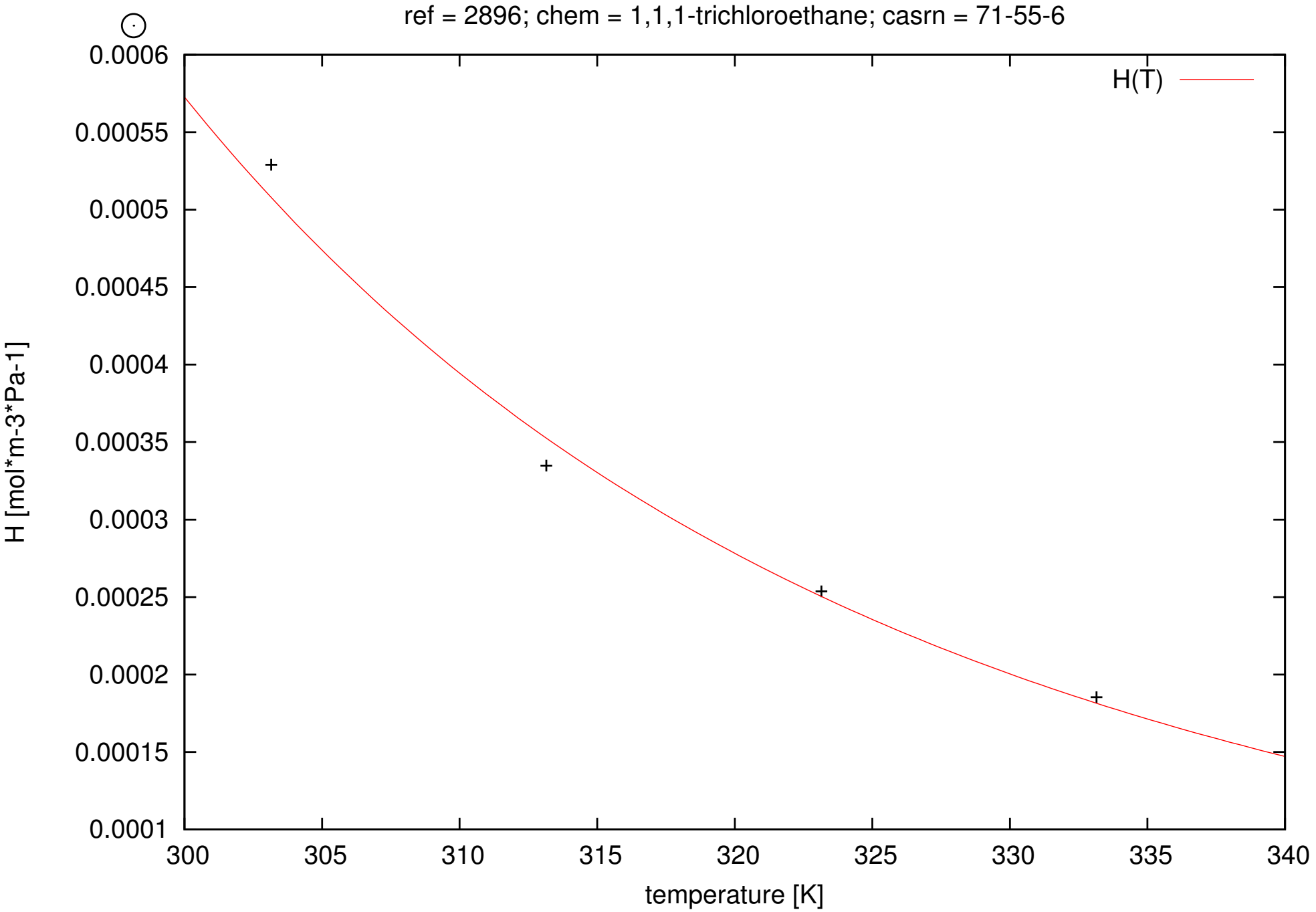

ref = 2895; chem = 1,2-dibromoethane; casrn = 106-93-4
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.016
0.014
0.012
0.01
0.008
0.006
0.004
290
295
300
305
310
315
320
325
330

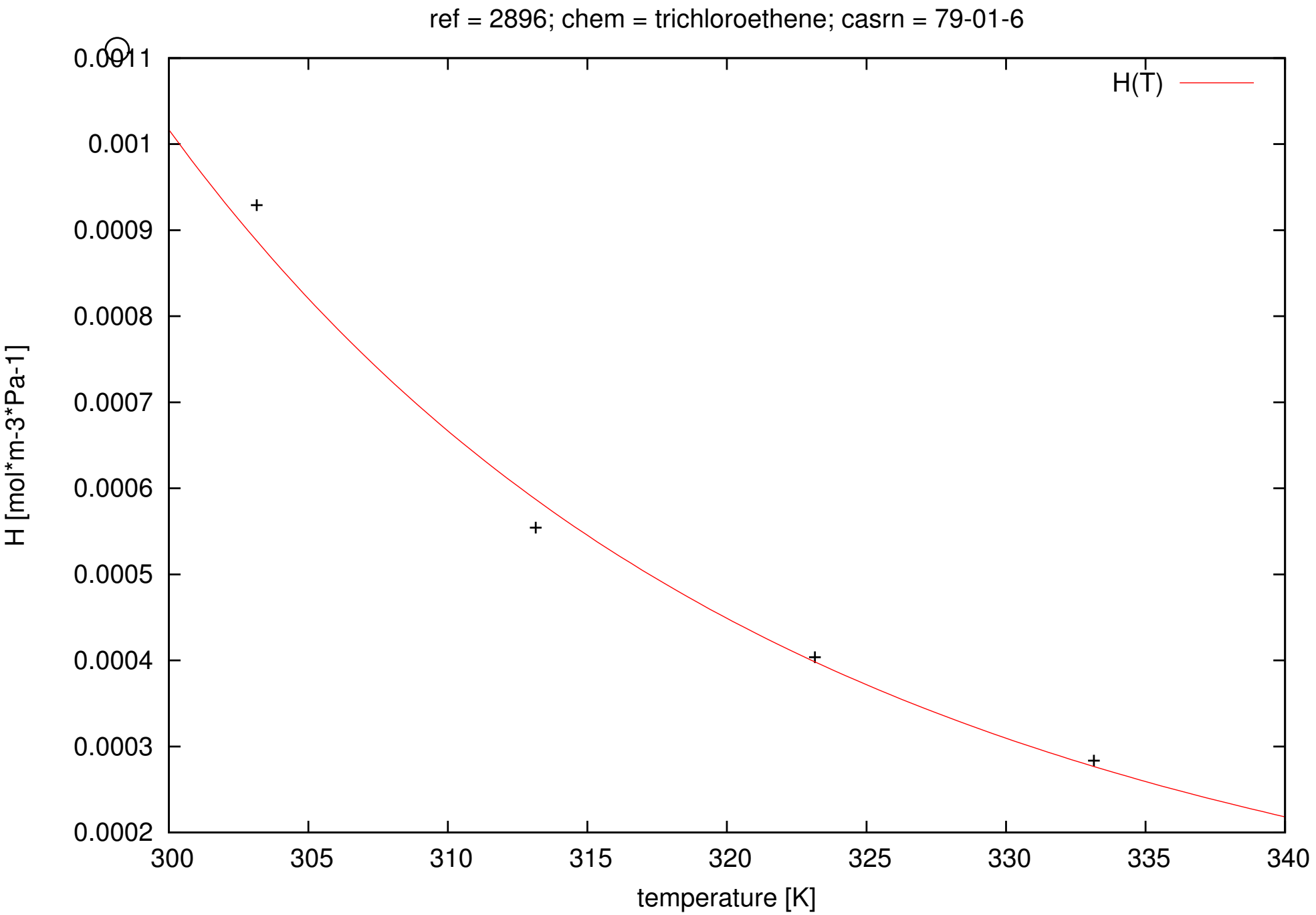

ref = 2895; chem = tribromomethane; casrn = 75-25-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005
290
295
300
305
310
315
320
325
330

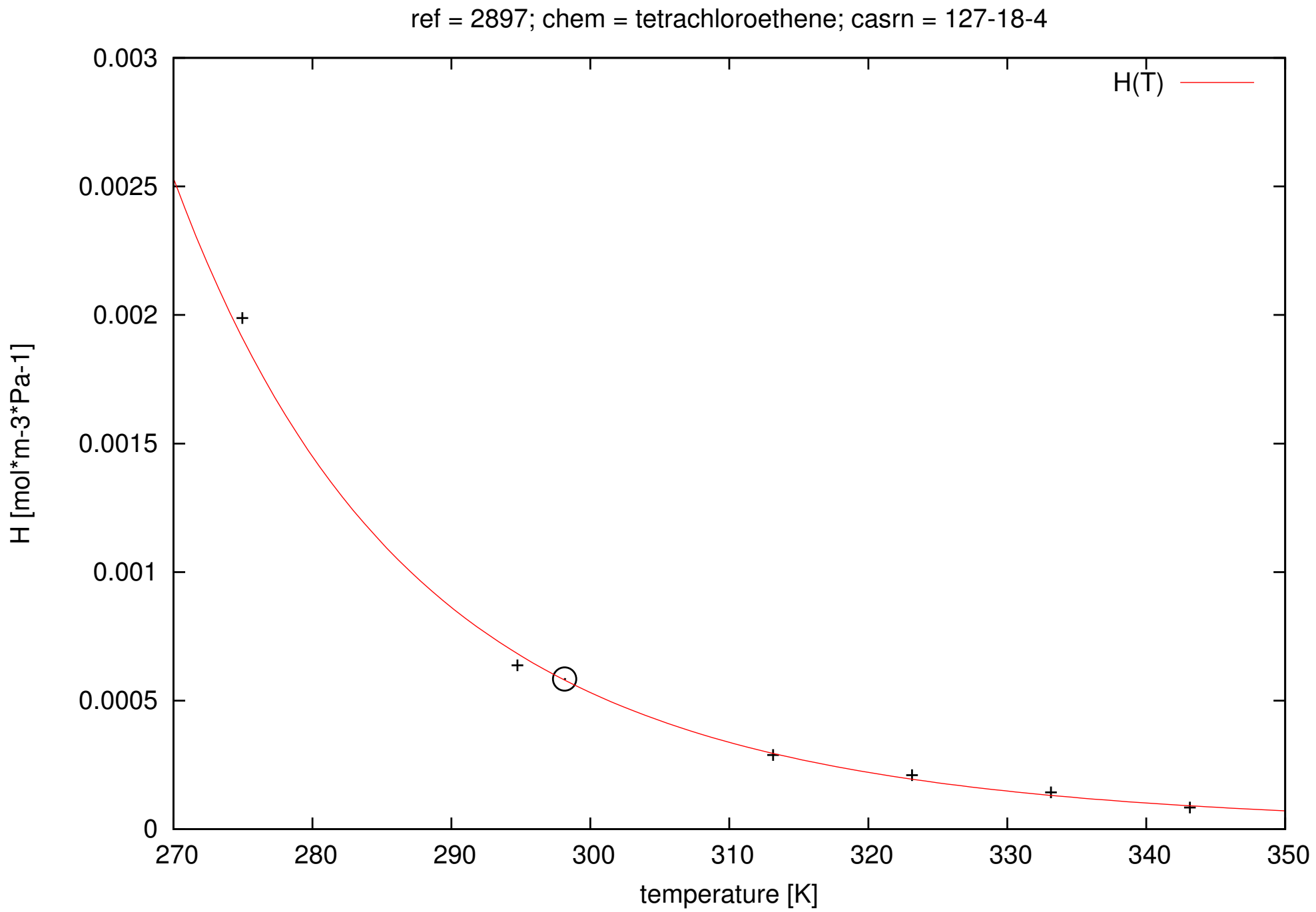

ref = 2895; chem = 1,1,2,2-tetrabromoethane; casrn = 79-27-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.011
0.0105
0.01
0.0095
0.009
0.0085
0.008
0.0075
290
295
300
305
310
315
320
325
330

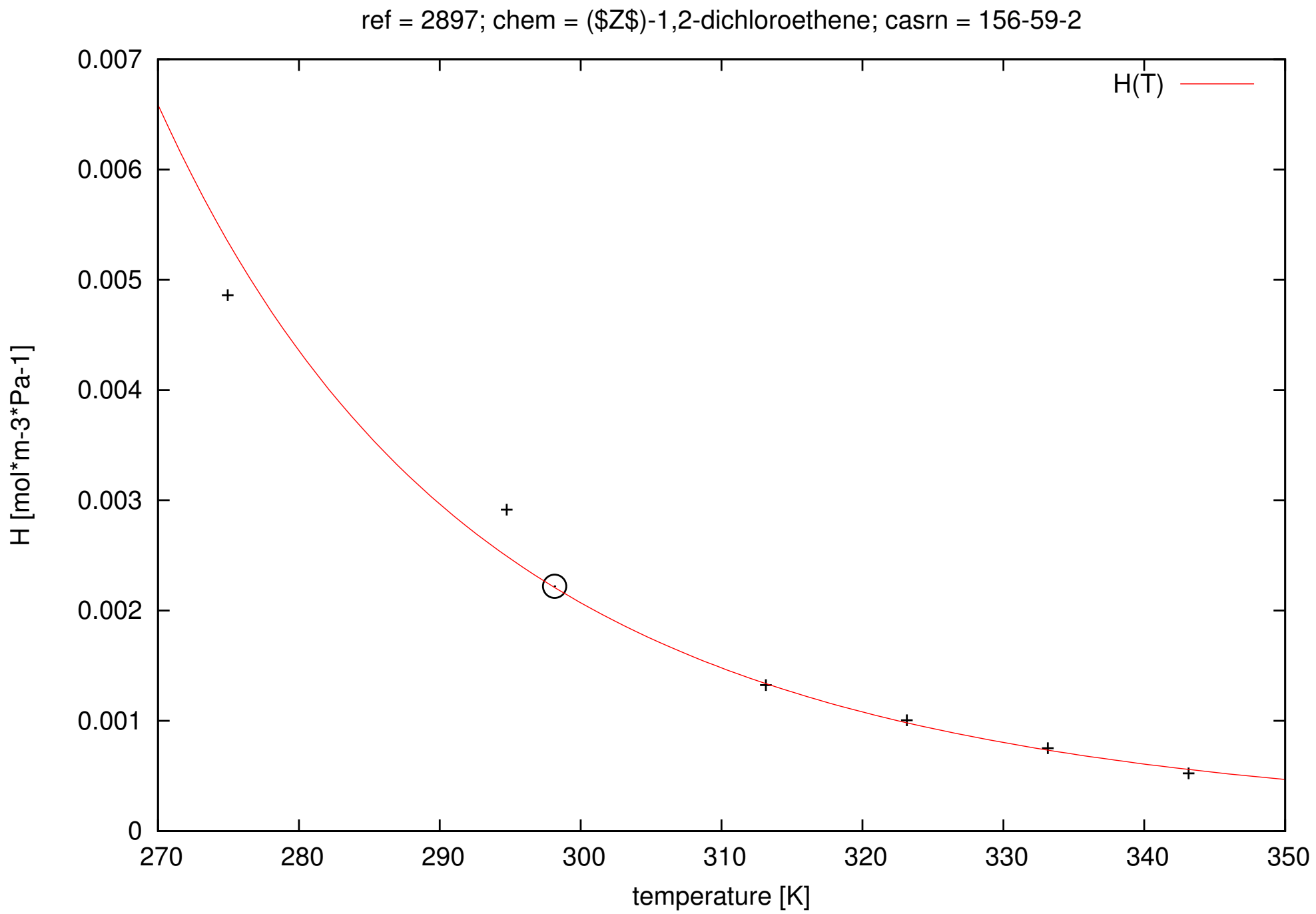

ref = 2896; chem = methylbenzene; casrn = 108-88-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
300
305
310
315
320
325
330
335
340

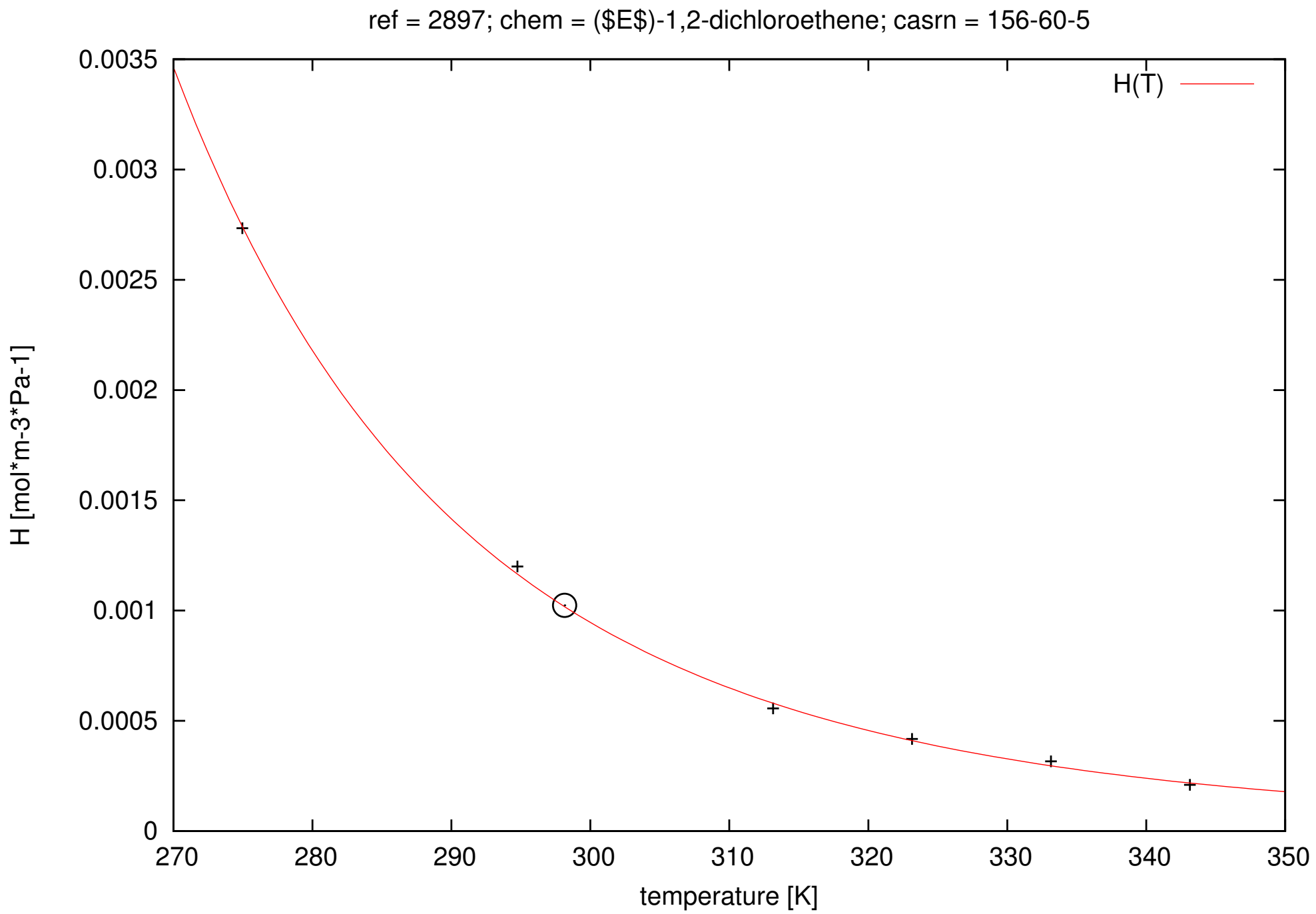

ref = 2896; chem = tetrachloroethene; casrn = 127-18-4
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.00055
0.0005
0.00045
0.0004
0.00035
0.0003
0.00025
0.0002
0.00015
0.0001
300
305
310
315
320
325
330
335
340

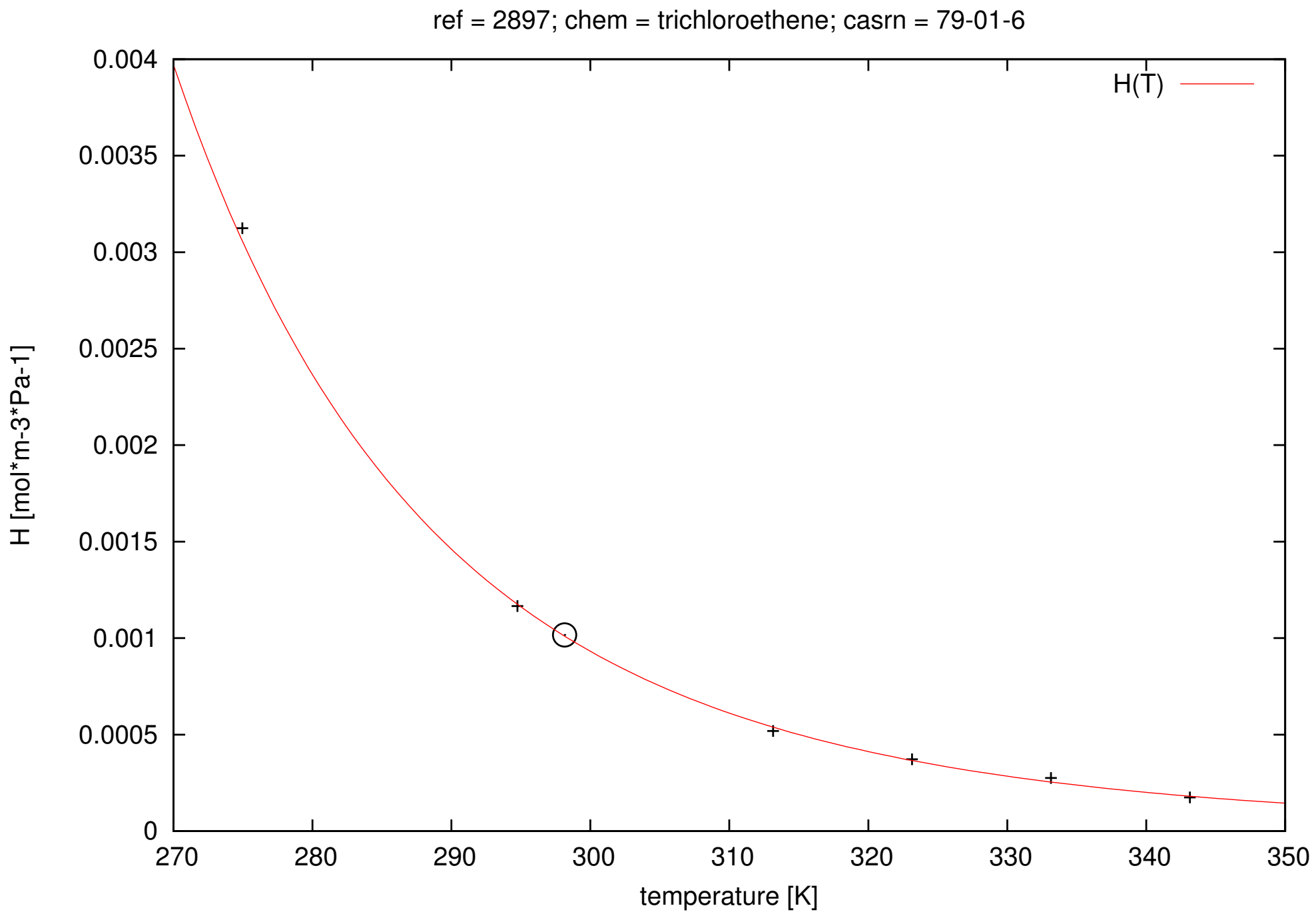

ref = 2896; chem = 1,1,1-trichloroethane; casrn = 71-55-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0006
0.00055
0.0005
0.00045
0.0004
0.00035
0.0003
0.00025
0.0002
0.00015
0.0001
300
305
310
315
320
325
330
335
340

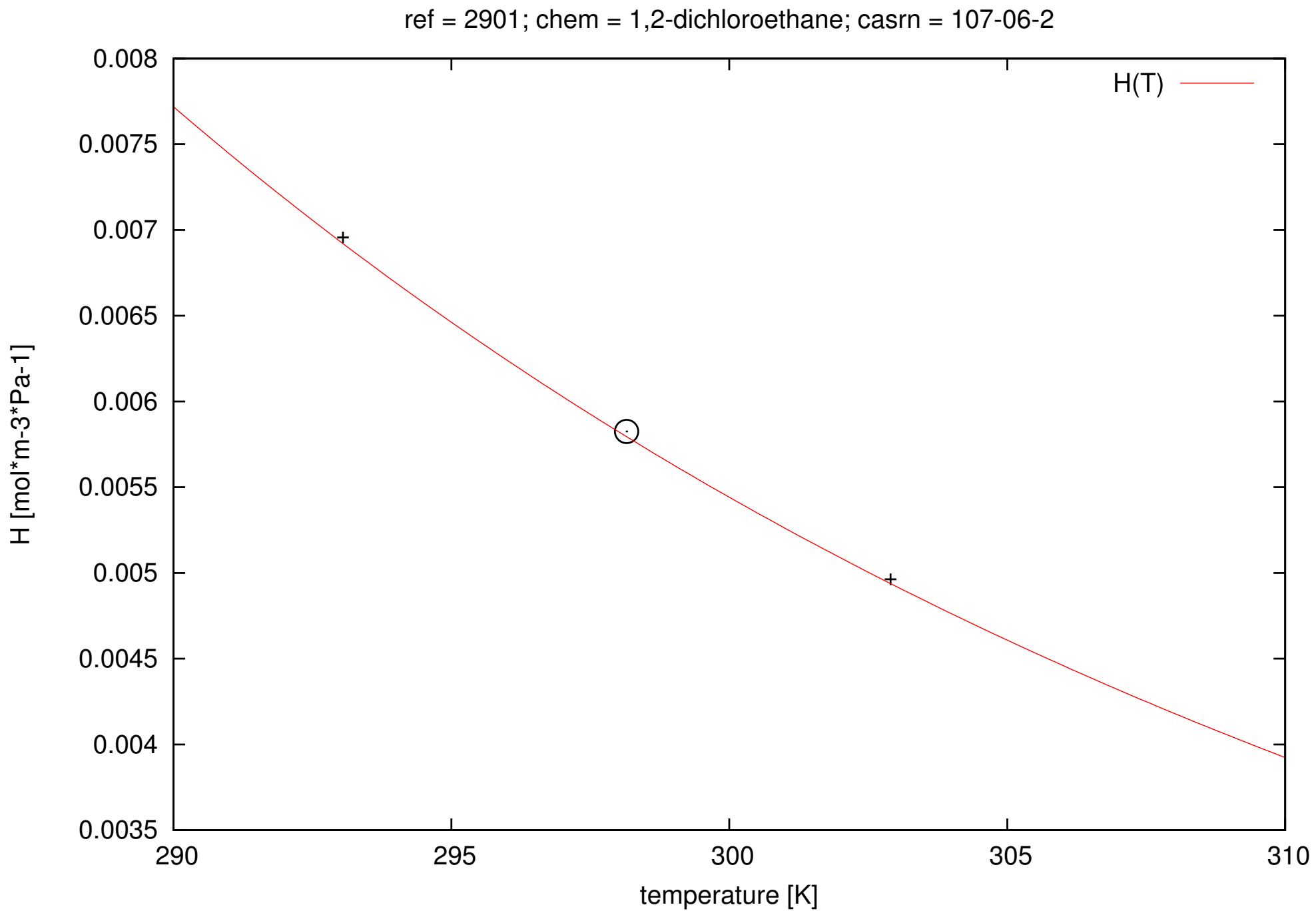

ref = 2896; chem = trichloroethene; casrn = 79-01-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0011
0.001
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
300
305
310
315
320
325
330
335
340

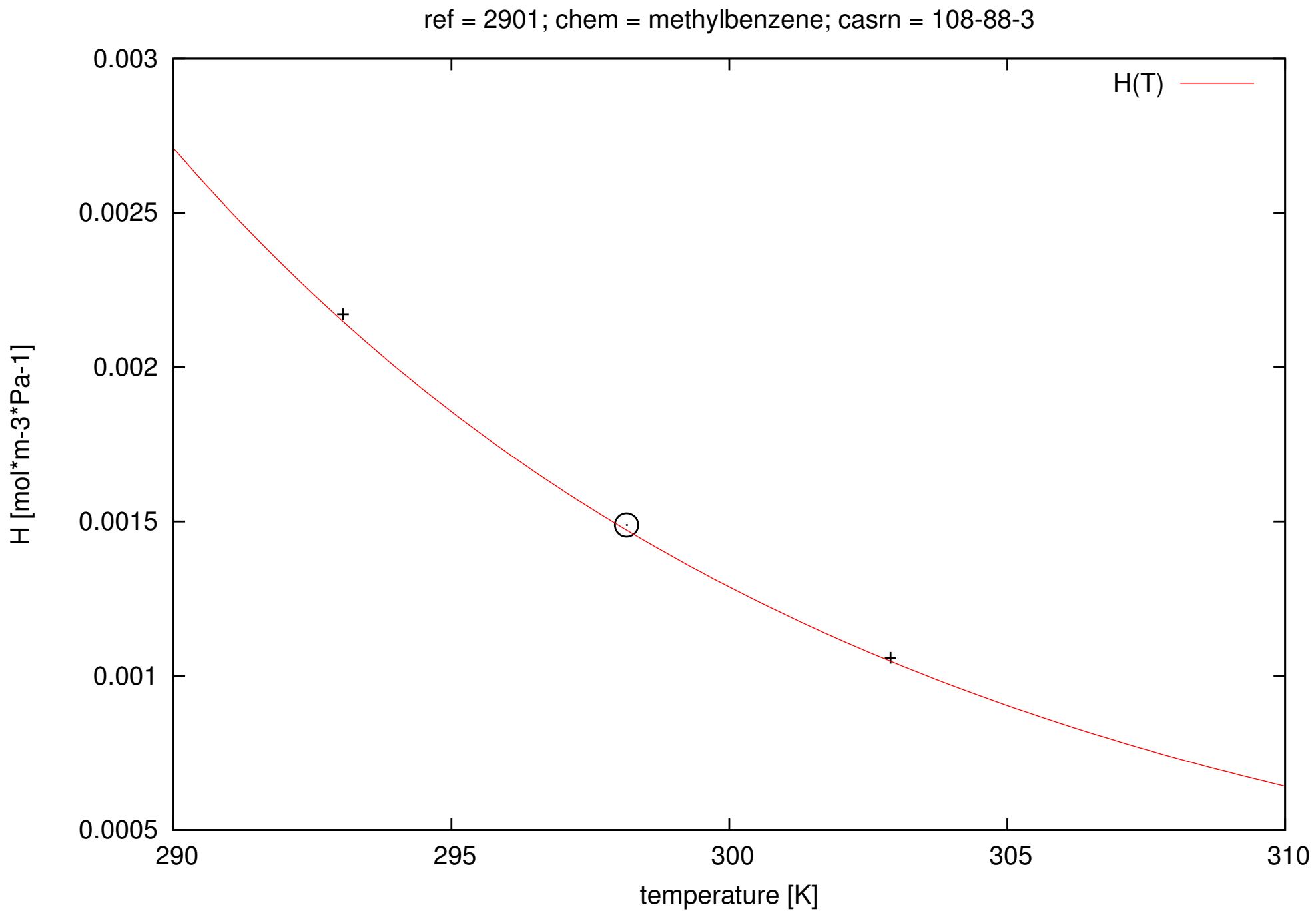

ref = 2897; chem = tetrachloroethene; casrn = 127-18-4
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
270
280
290
300
310
320
330
340
350

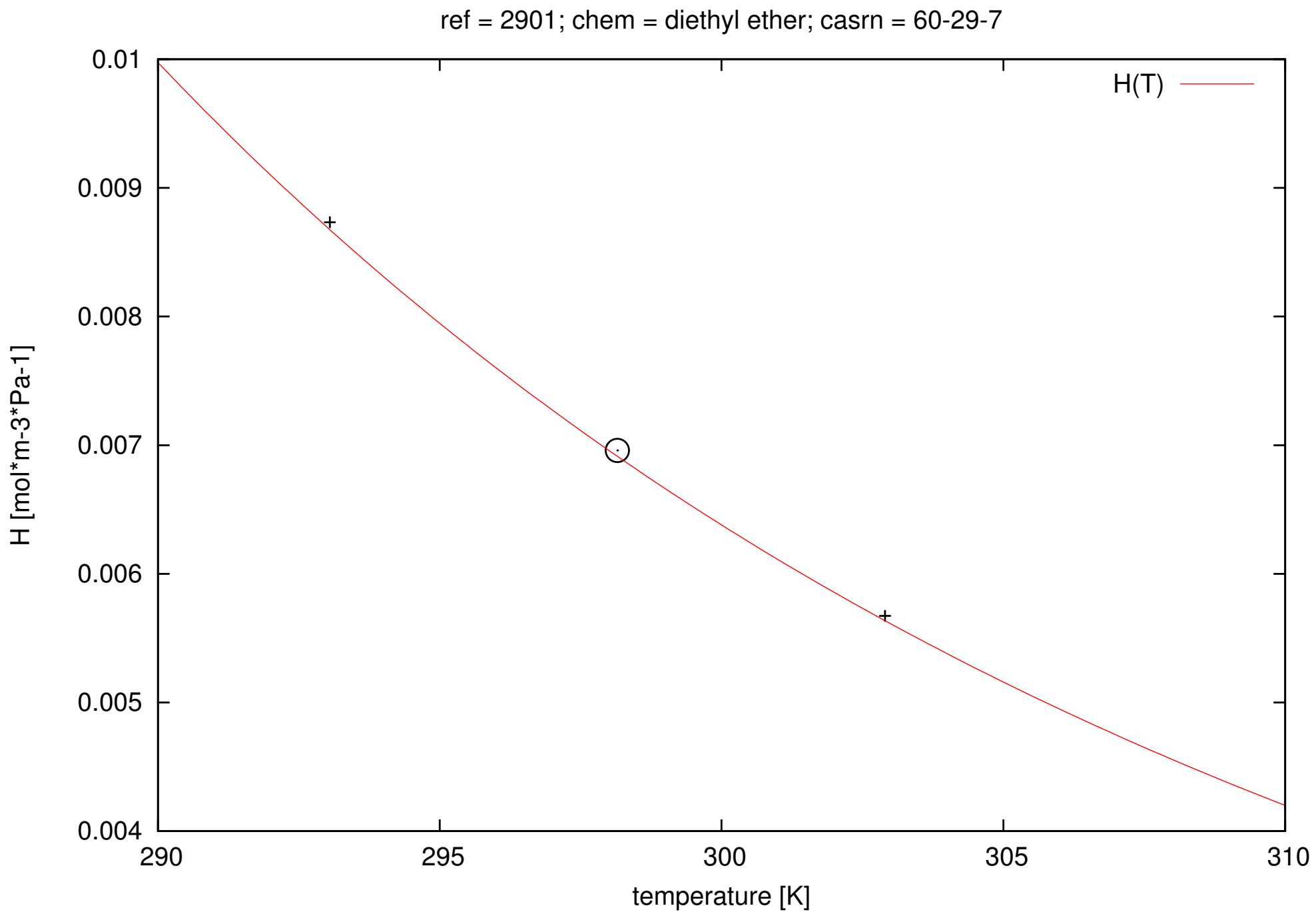

ref = 2897; chem = (Z)-1,2-dichloroethene; casrn = 156-59-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0
270
280
290
300
310
320
330
340
350

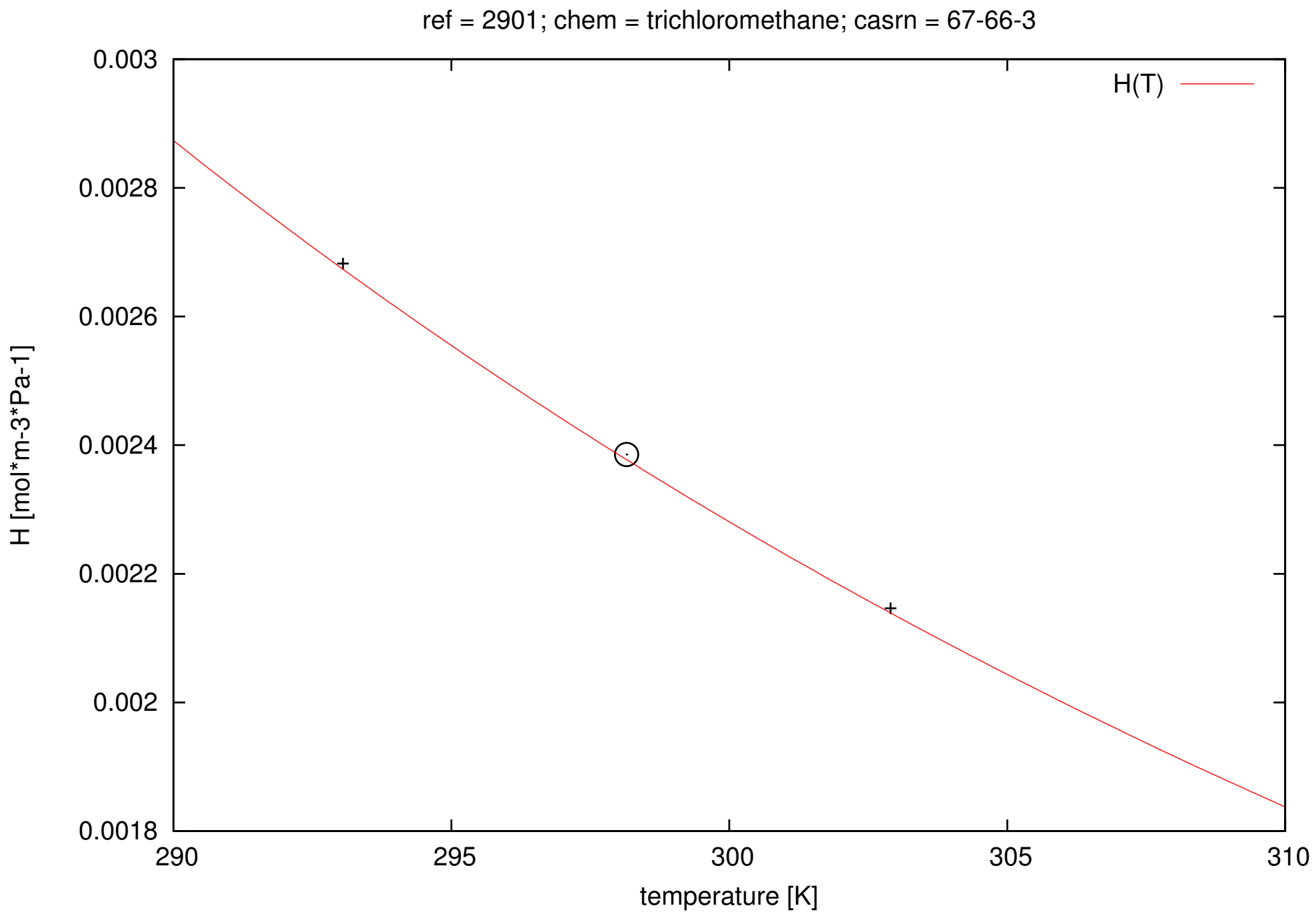

ref = 2897; chem = (E)-1,2-dichloroethene; casrn = 156-60-5
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
270
280
290
300
310
320
330
340
350

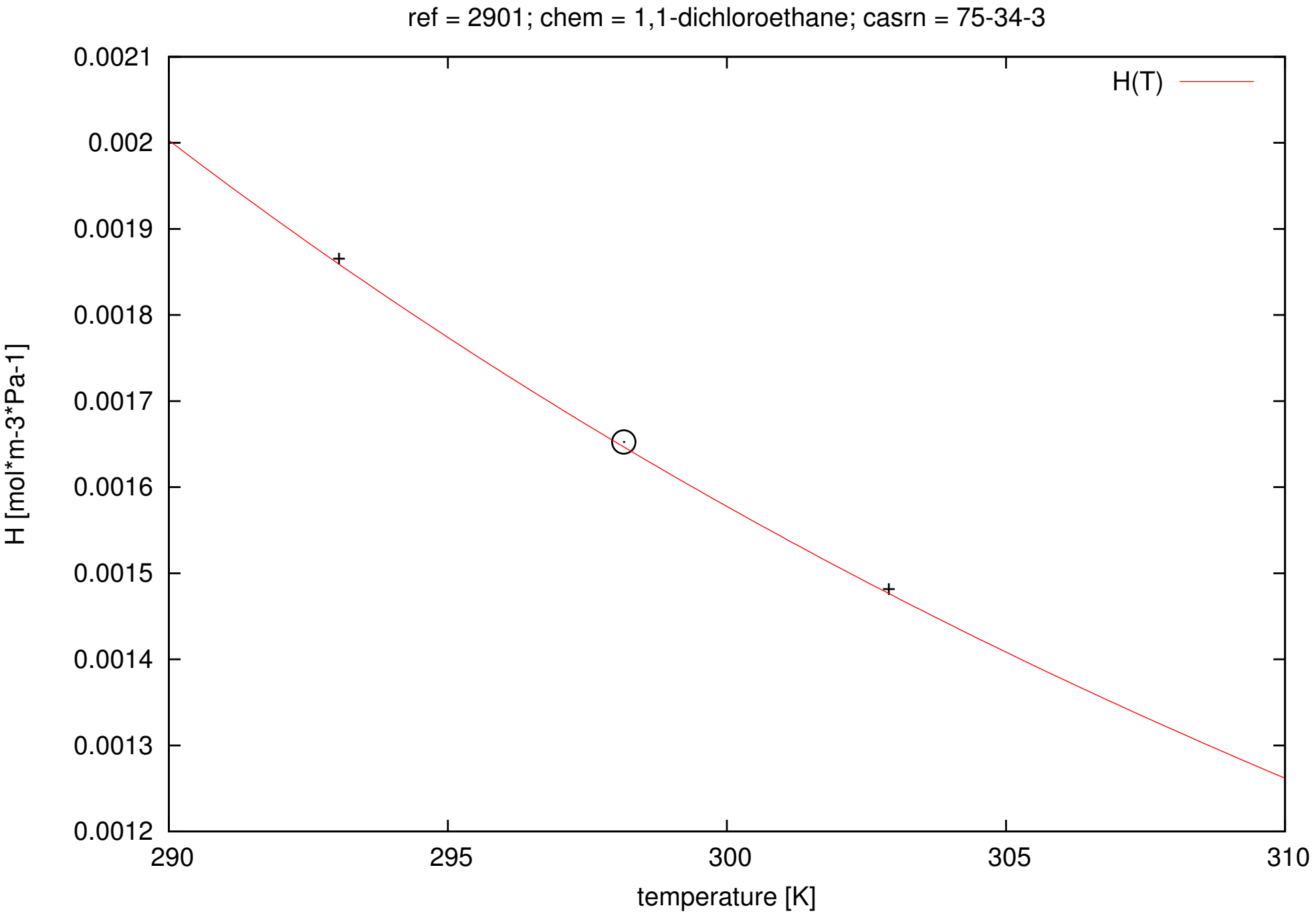

ref = 2897; chem = trichloroethene; casrn = 79-01-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
270
280
290
300
310
320
330
340
350

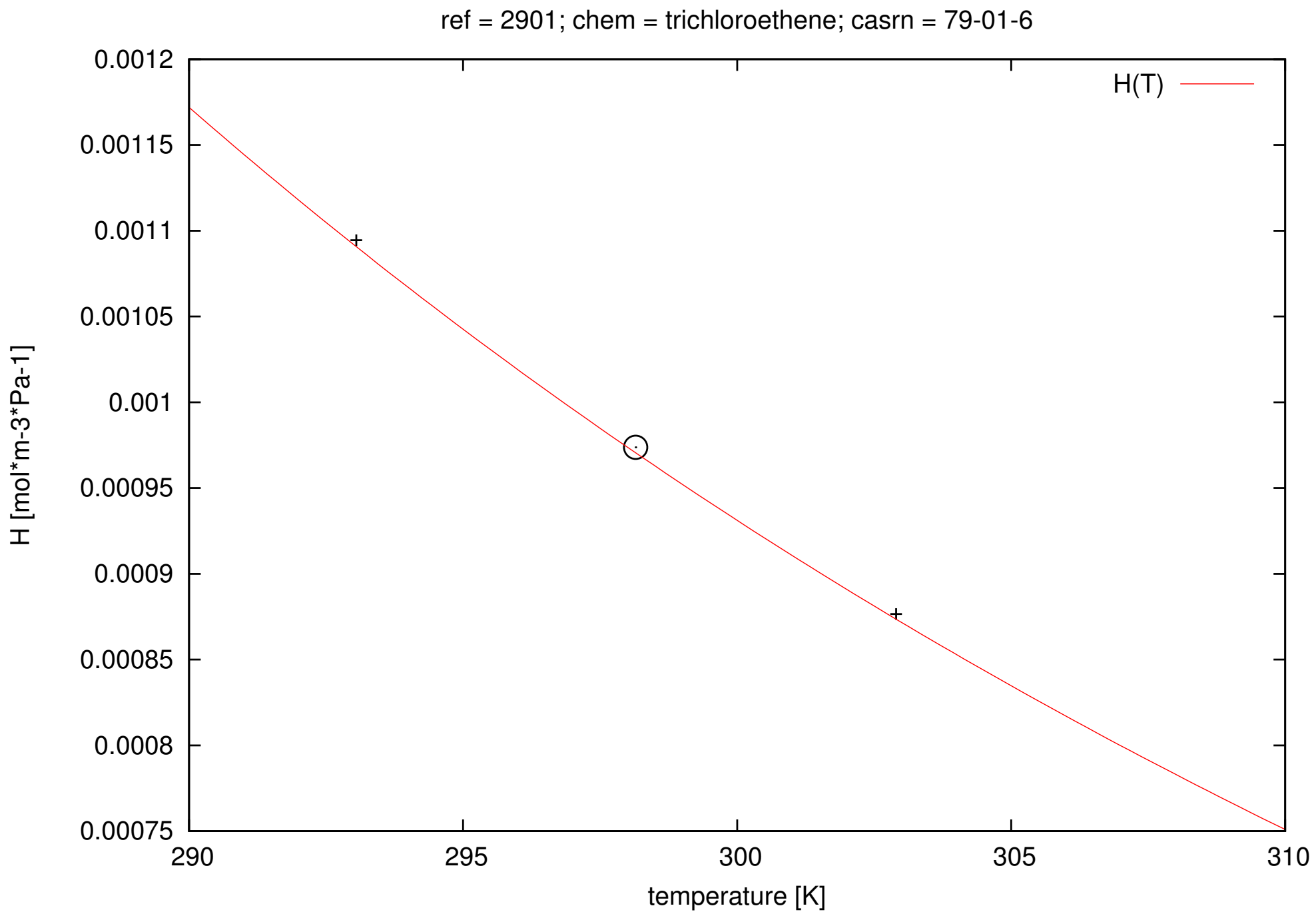

ref = 2901; chem = 1,2-dichloroethane; casrn = 107-06-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
290
295
300
305
310

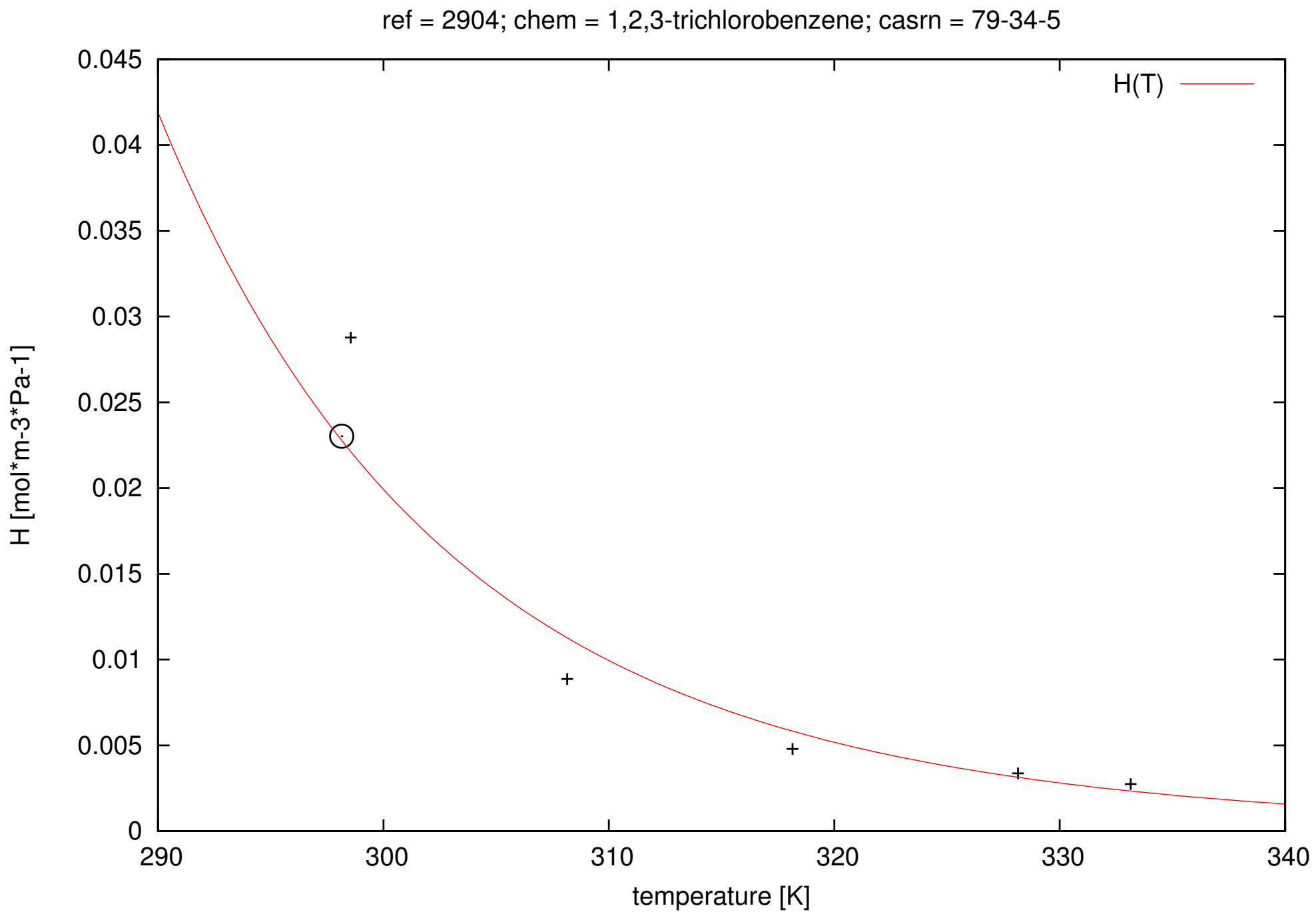

ref = 2901; chem = methylbenzene; casrn = 108-88-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.003
0.0025
0.002
0.0015
0.001
0.0005
290
295
300
305
310

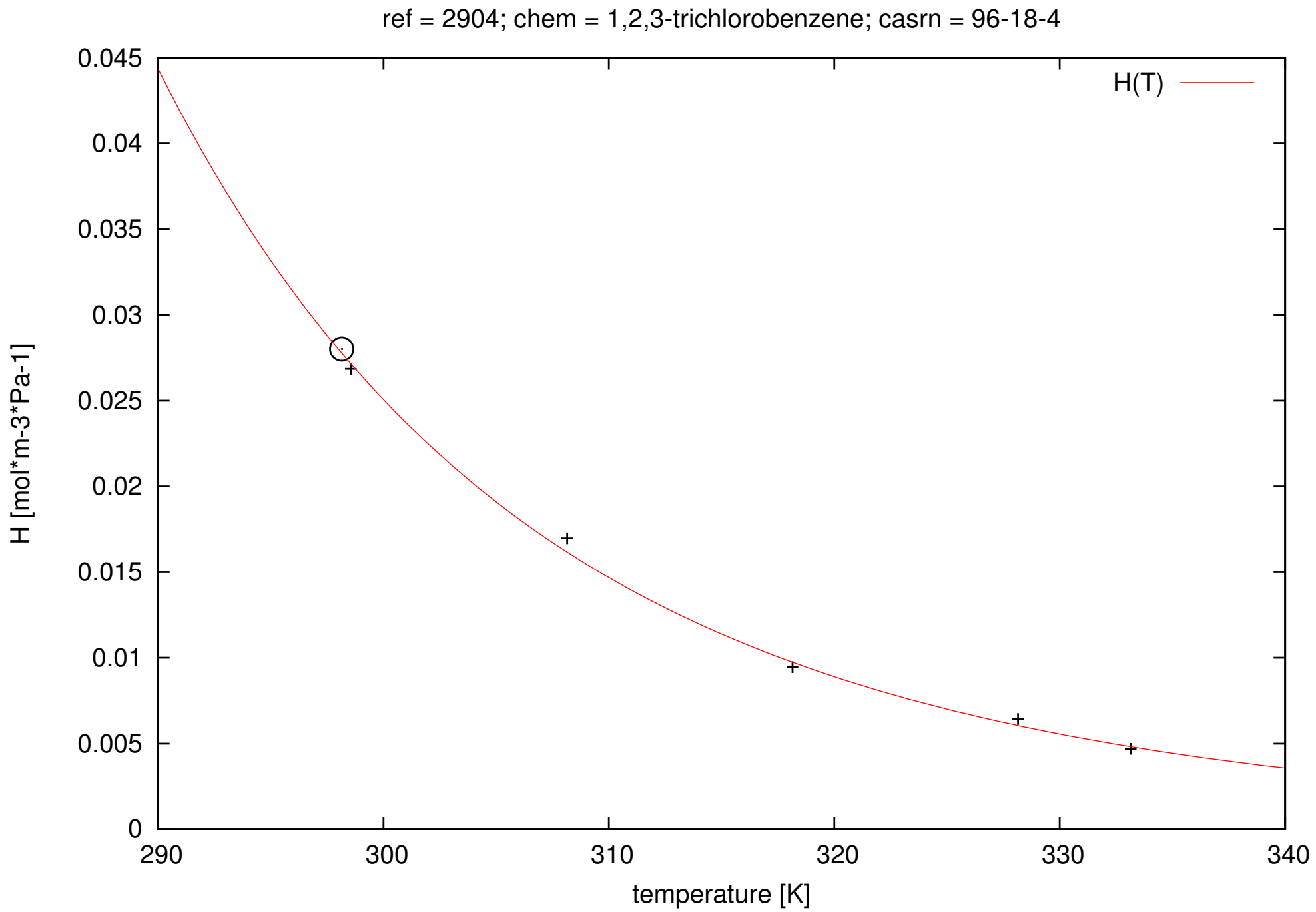

ref = 2901; chem = diethyl ether; casrn = 60-29-7
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.01
0.009
0.008
0.007
0.006
0.005
0.004
290
295
300
305
310

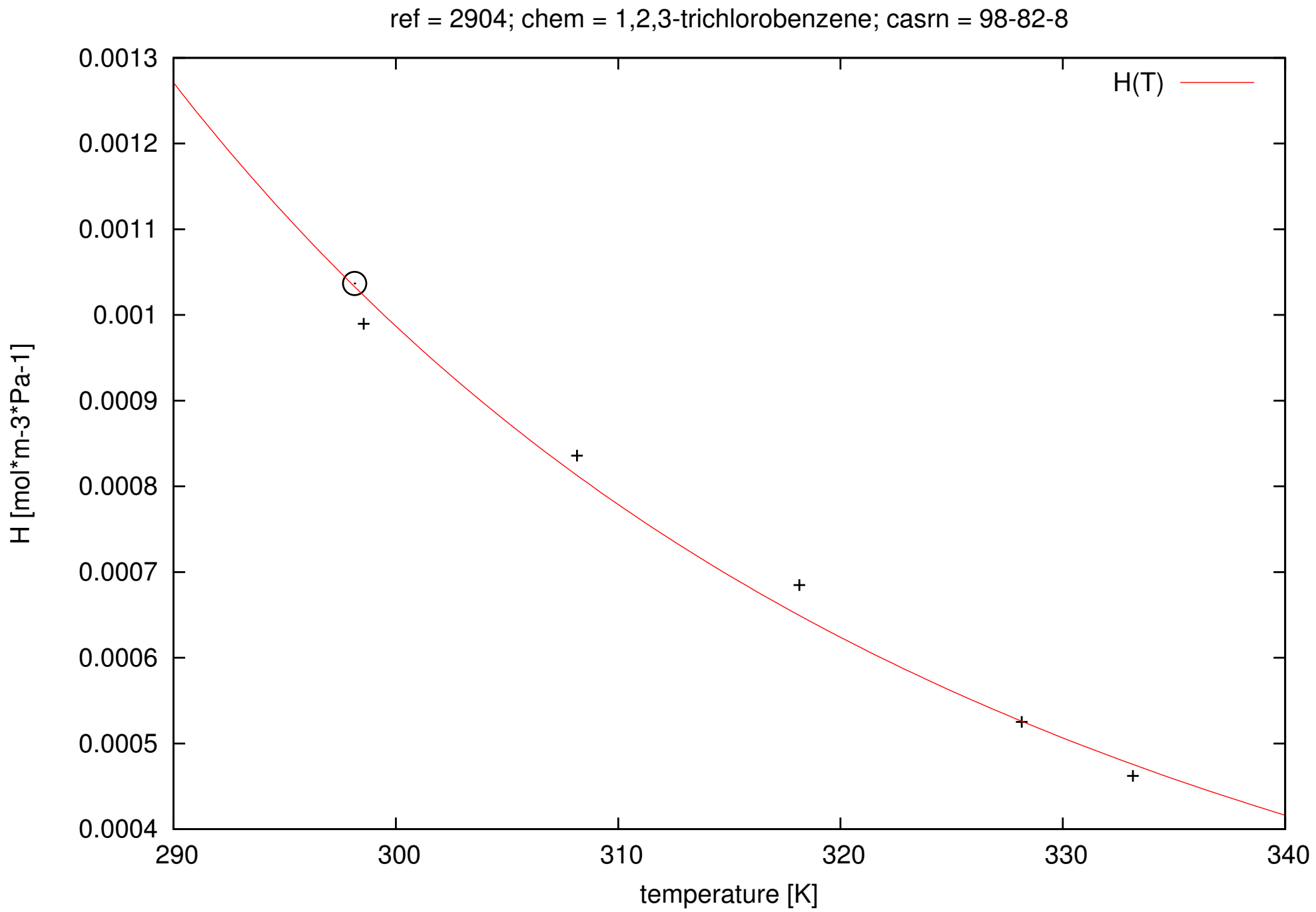

ref = 2901; chem = trichloromethane; casrn = 67-66-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
290
295
300
305
310

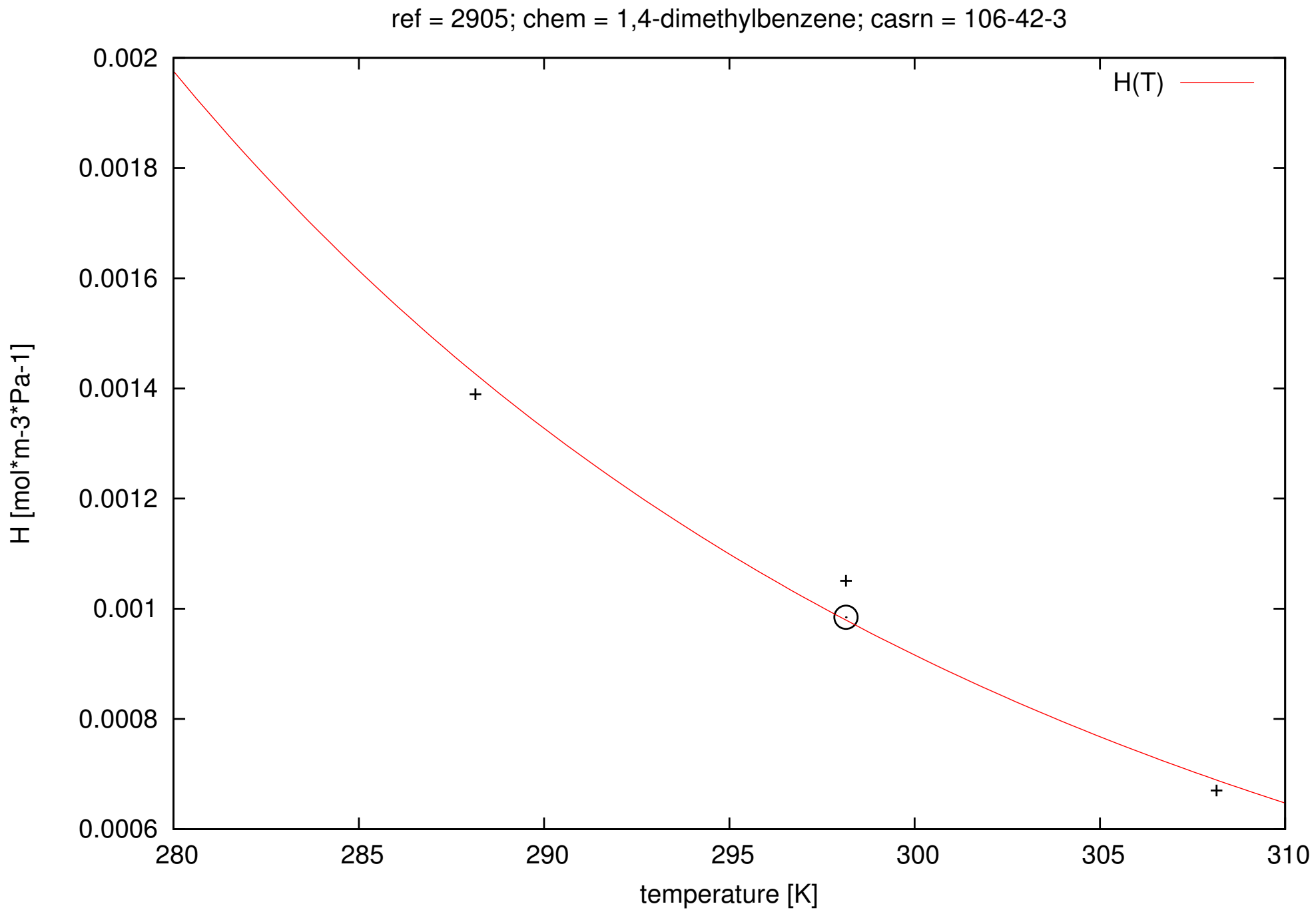

ref = 2901; chem = 1,1-dichloroethane; casrn = 75-34-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0021
0.002
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012
290
295
300
305
310

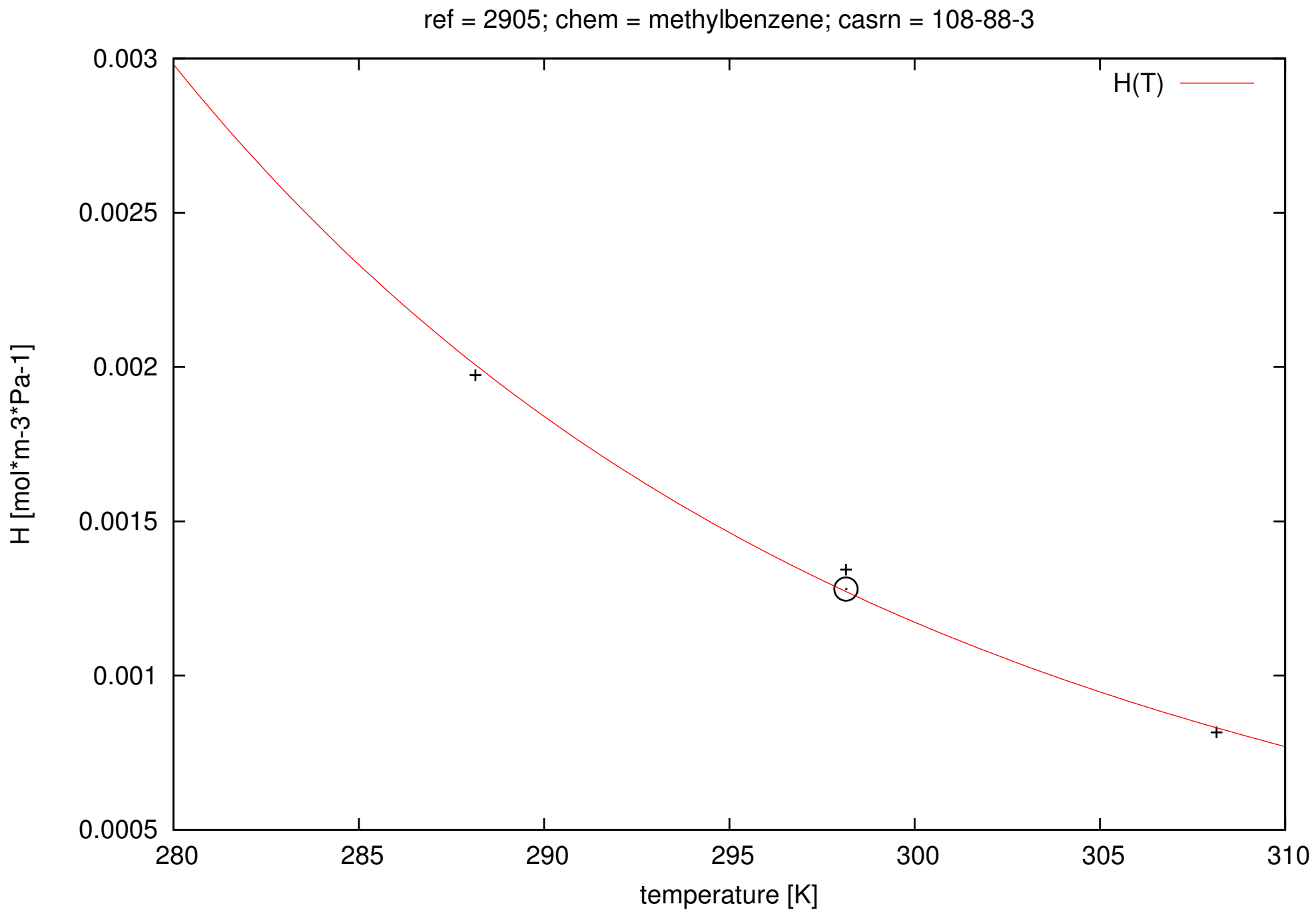

ref = 2901; chem = trichloroethene; casrn = 79-01-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0012
0.00115
0.0011
0.00105
0.001
0.00095
0.0009
0.00085
0.0008
0.00075
290
295
300
305
310

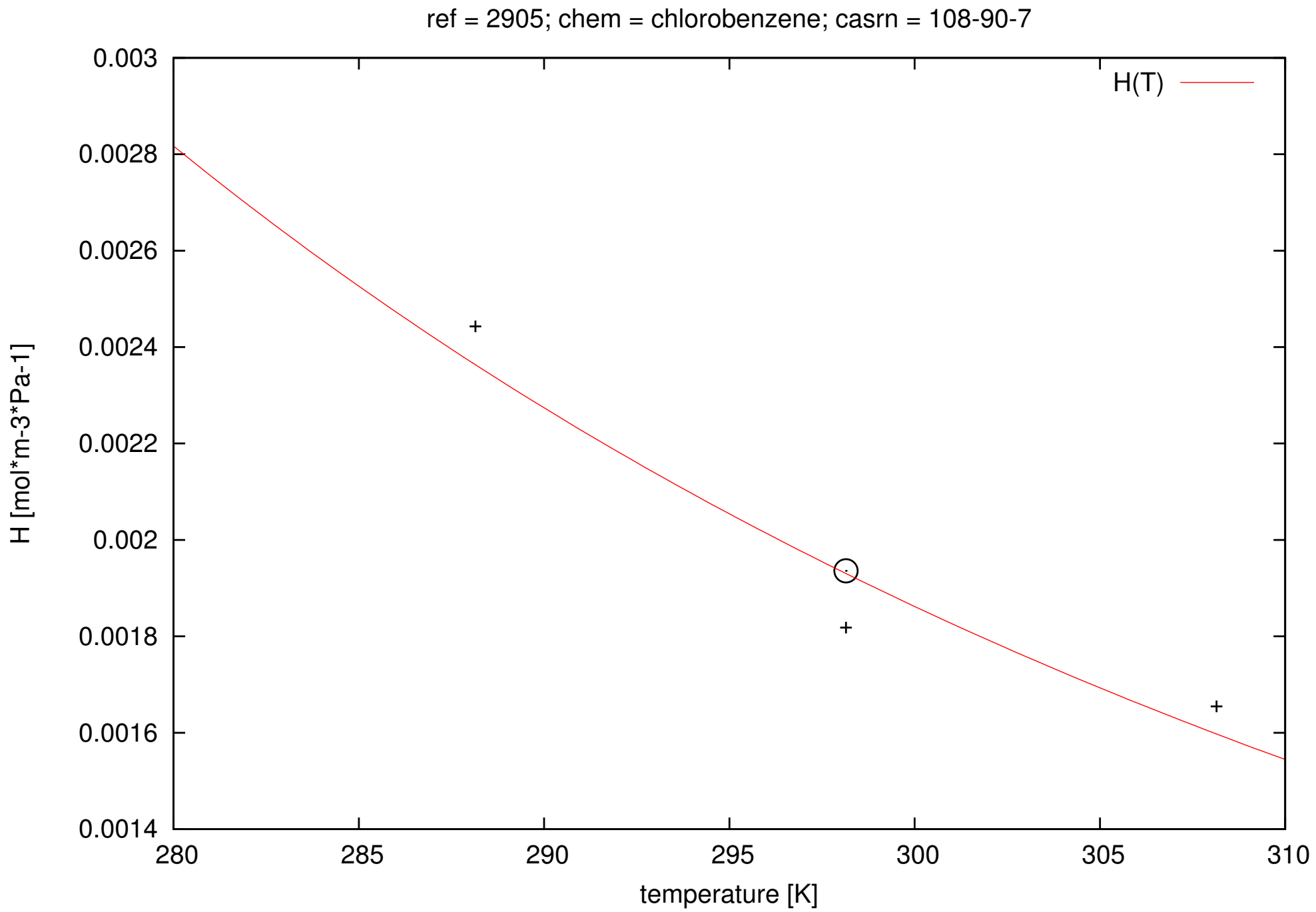

ref = 2904; chem = 1,2,3-trichlorobenzene; casrn = 79-34-5
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
290
300
310
320
330
340

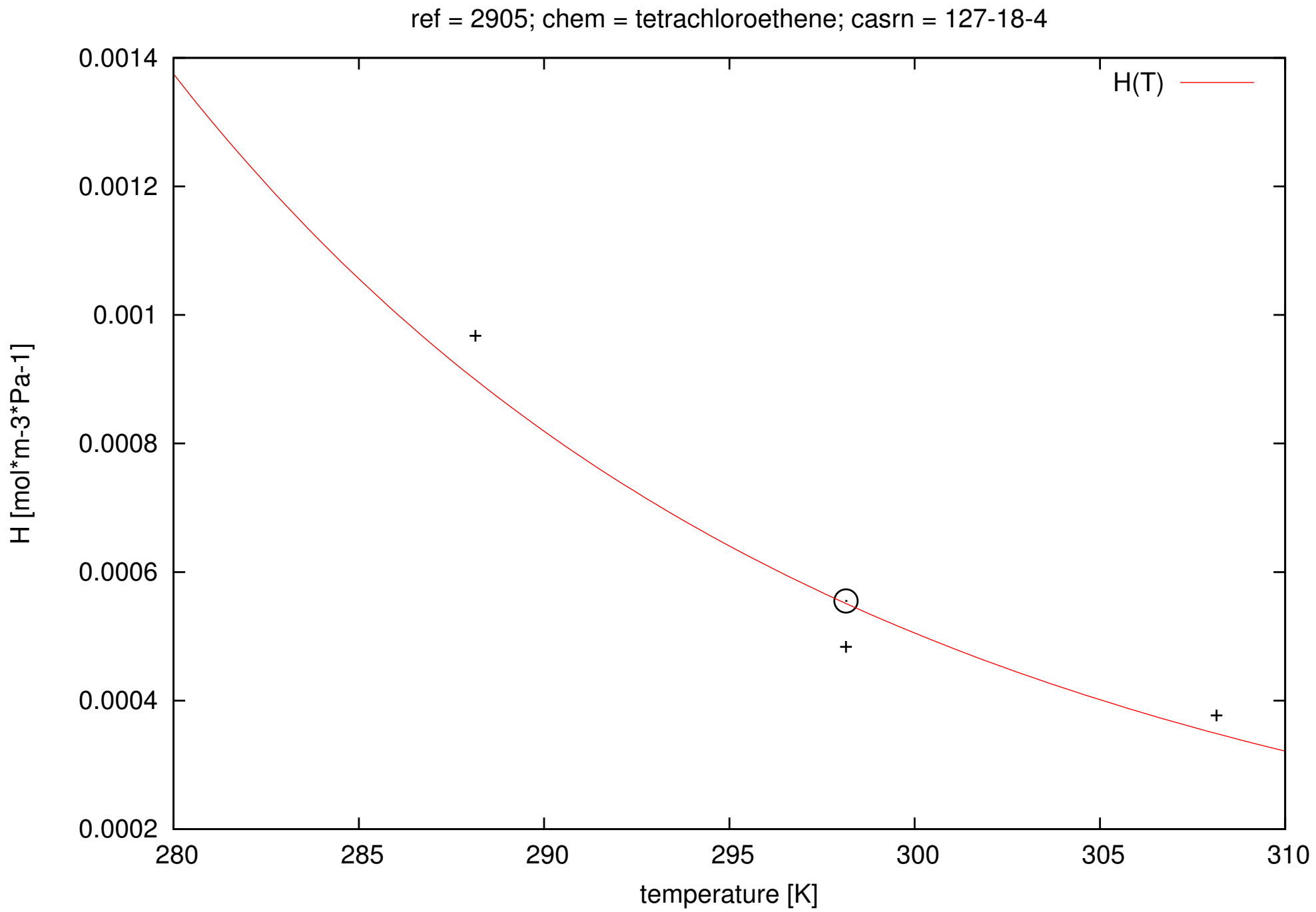

ref = 2904; chem = 1,2,3-trichlorobenzene; casrn = 96-18-4
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
290
300
310
320
330
340

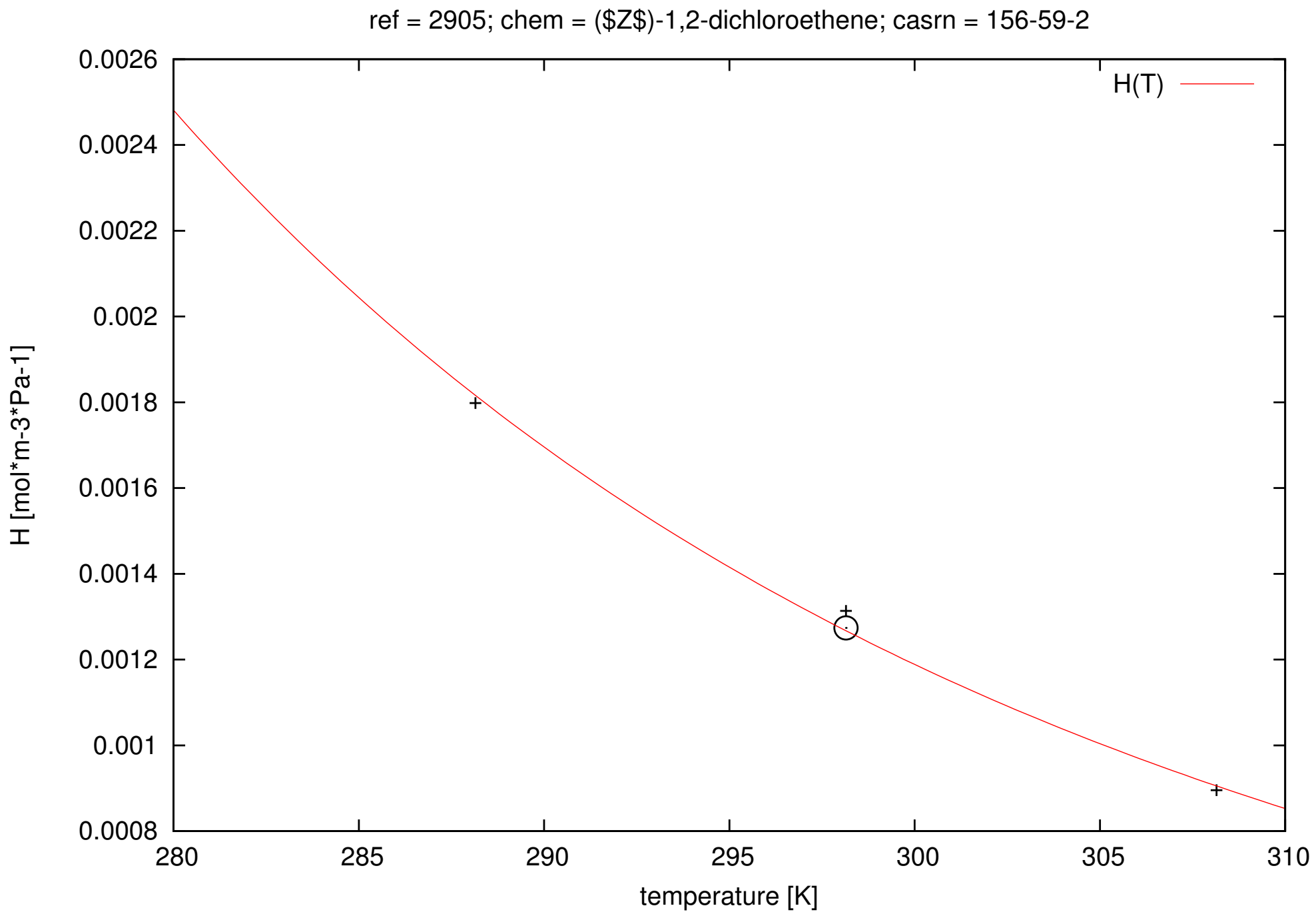

ref = 2904; chem = 1,2,3-trichlorobenzene; casrn = 98-82-8
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0013
0.0012
0.0011
0.001
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004
290
300
310
320
330
340

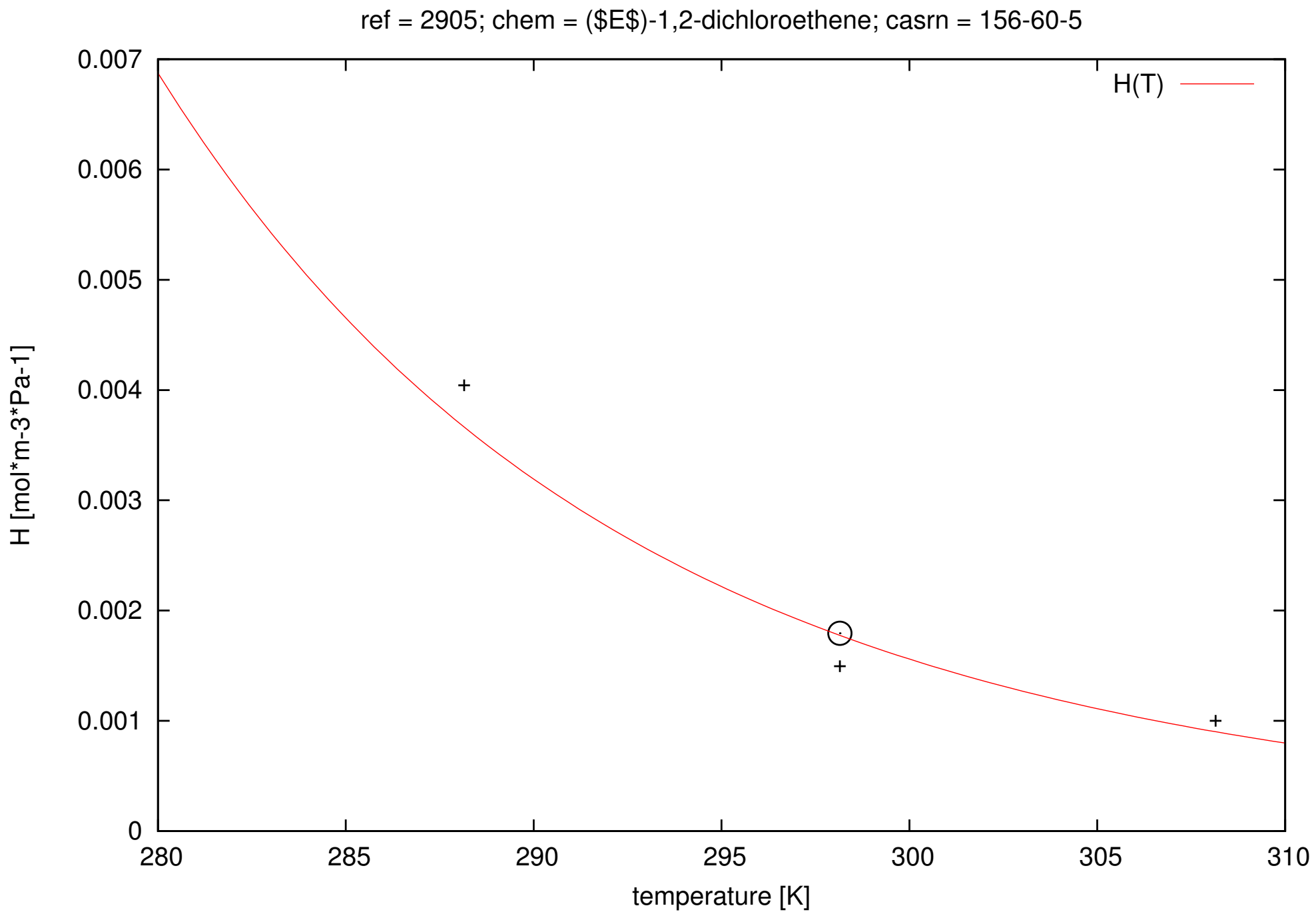

ref = 2905; chem = 1,4-dimethylbenzene; casrn = 106-42-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
280
285
290
295
300
305
310

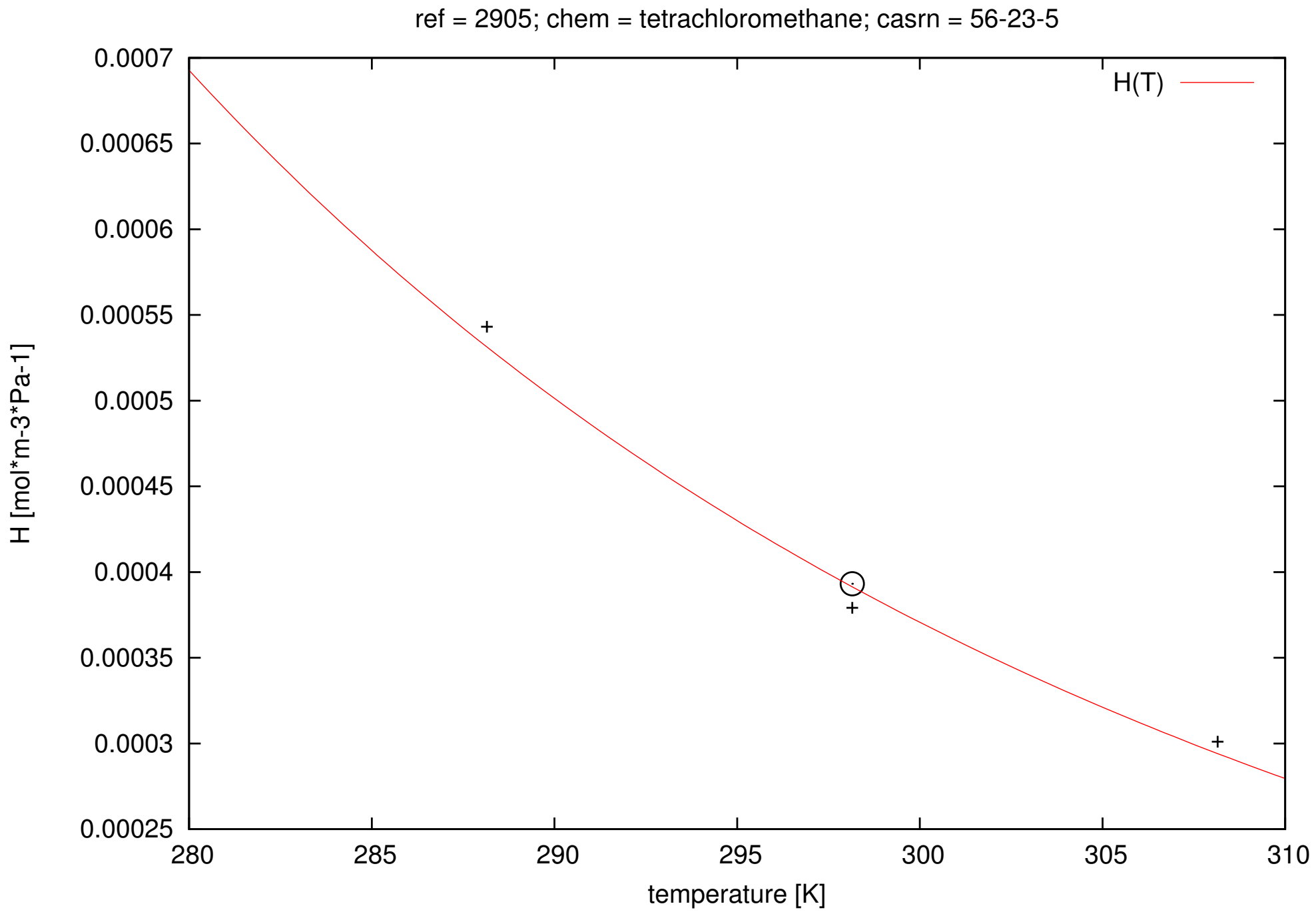

ref = 2905; chem = methylbenzene; casrn = 108-88-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.003
0.0025
0.002
0.0015
0.001
0.0005
280
285
290
295
300
305
310

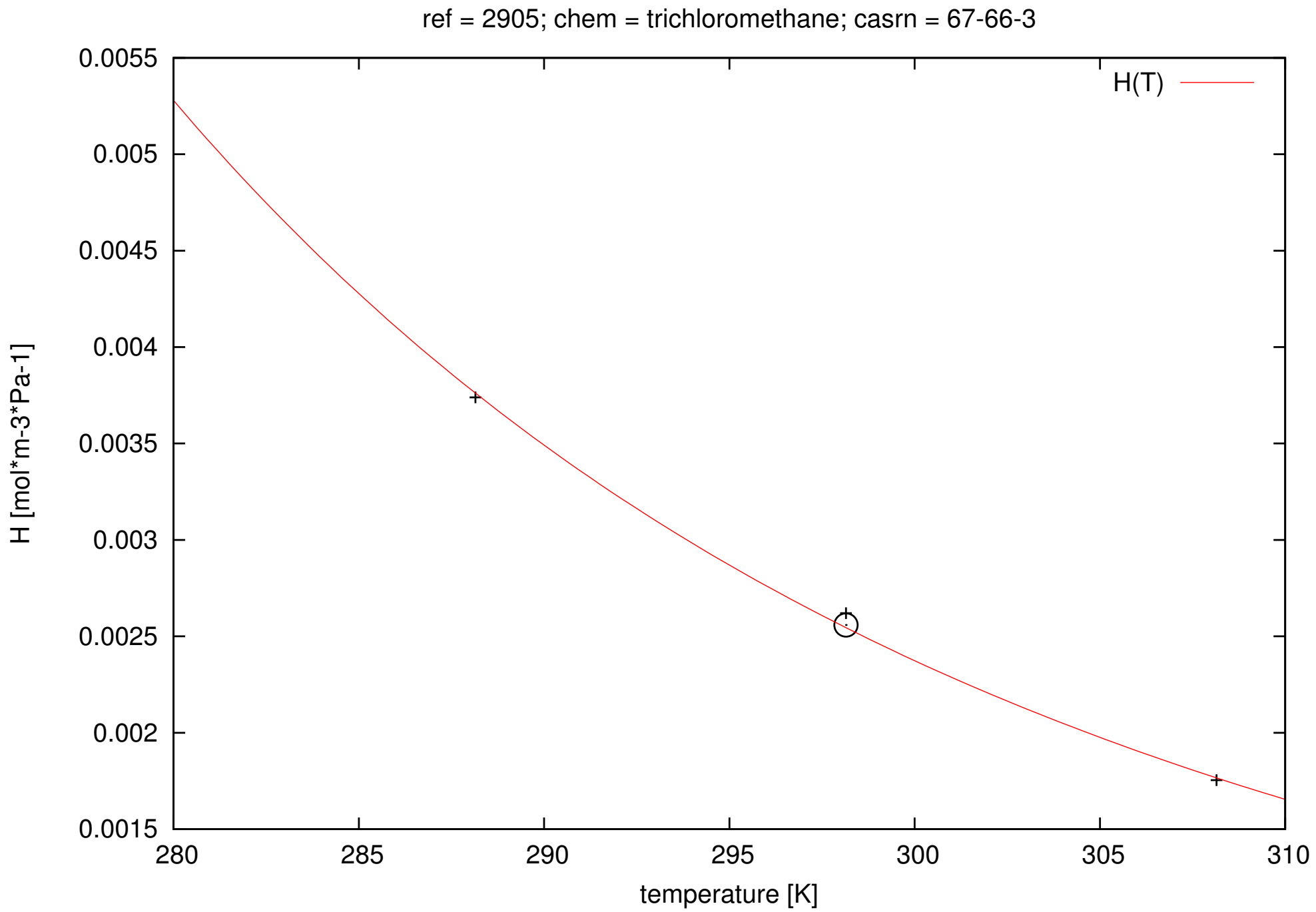

ref = 2905; chem = chlorobenzene; casrn = 108-90-7
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
280
285
290
295
300
305
310

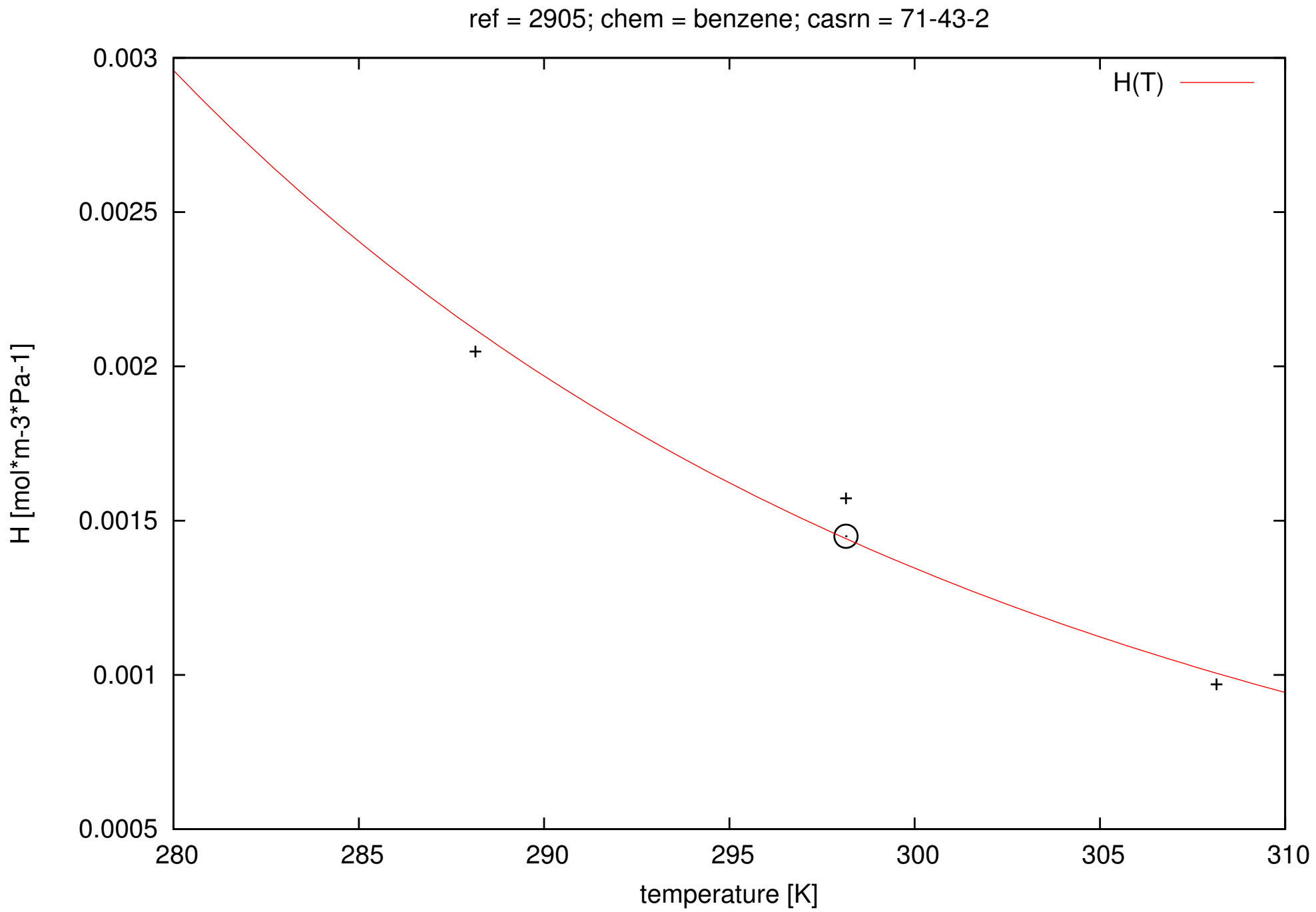

ref = 2905; chem = tetrachloroethene; casrn = 127-18-4
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
280
285
290
295
300
305
310

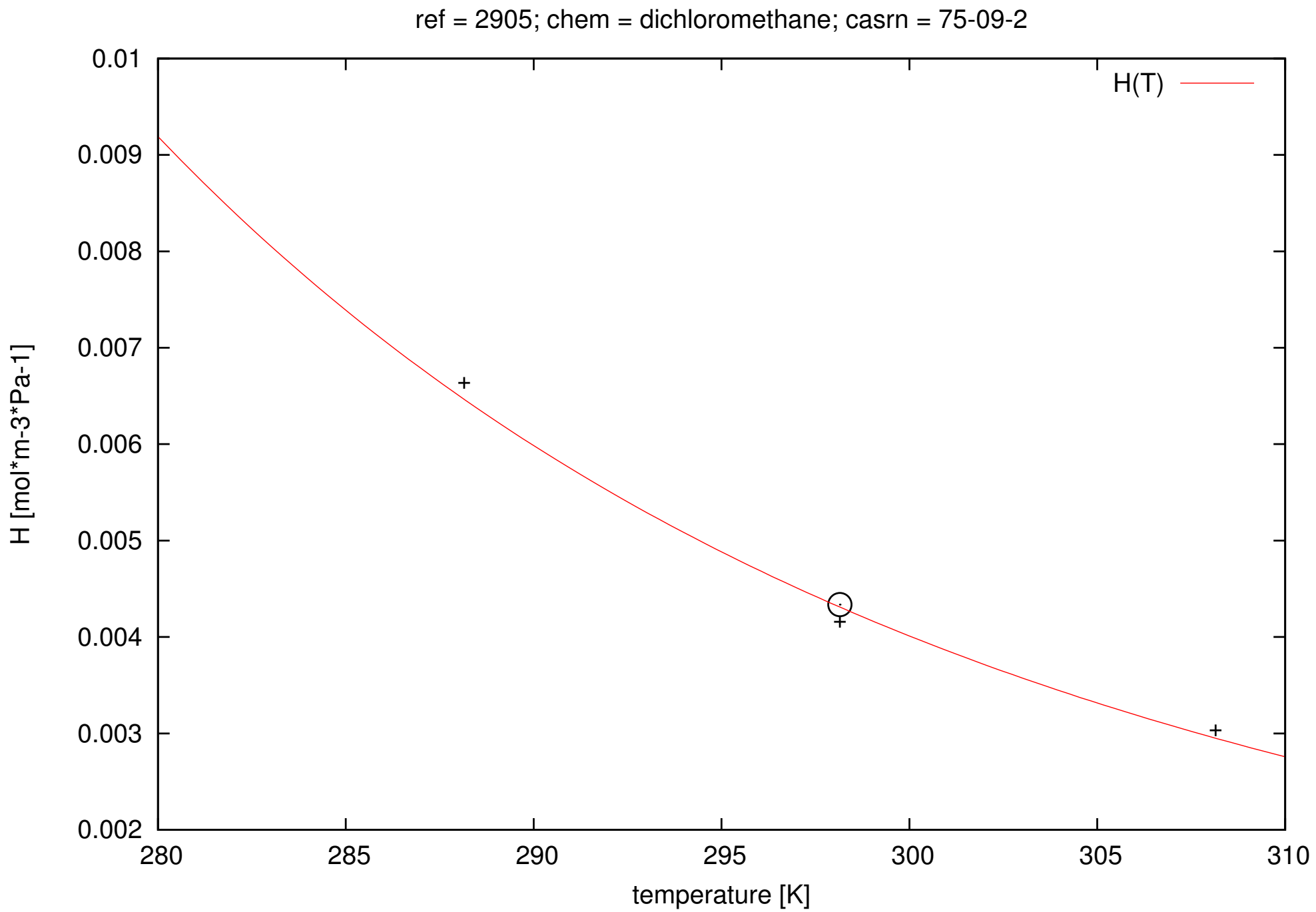

ref = 2905; chem = (Z)-1,2-dichloroethene; casrn = 156-59-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
280
285
290
295
300
305
310

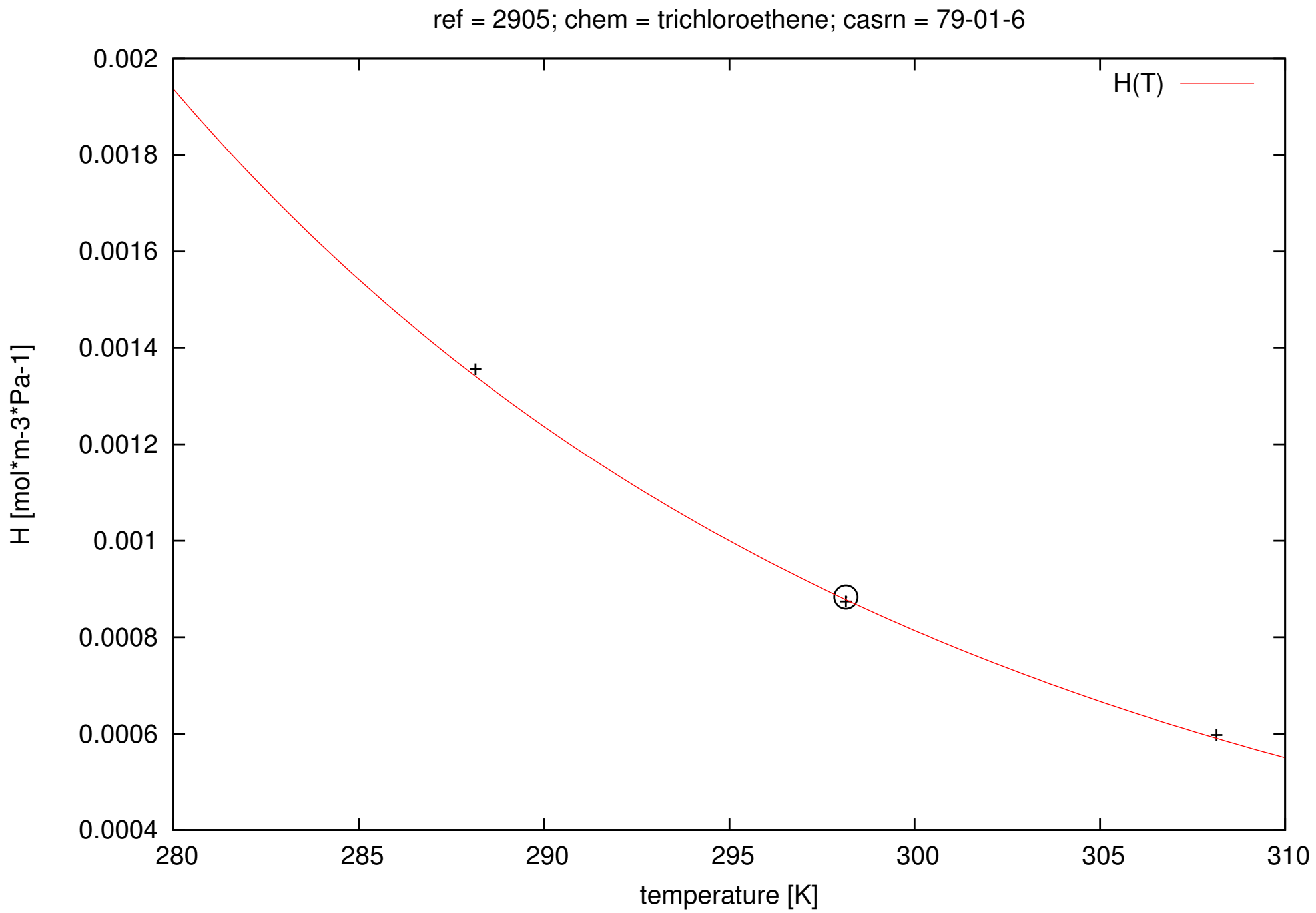

ref = 2905; chem = (E)-1,2-dichloroethene; casrn = 156-60-5
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0
280
285
290
295
300
305
310

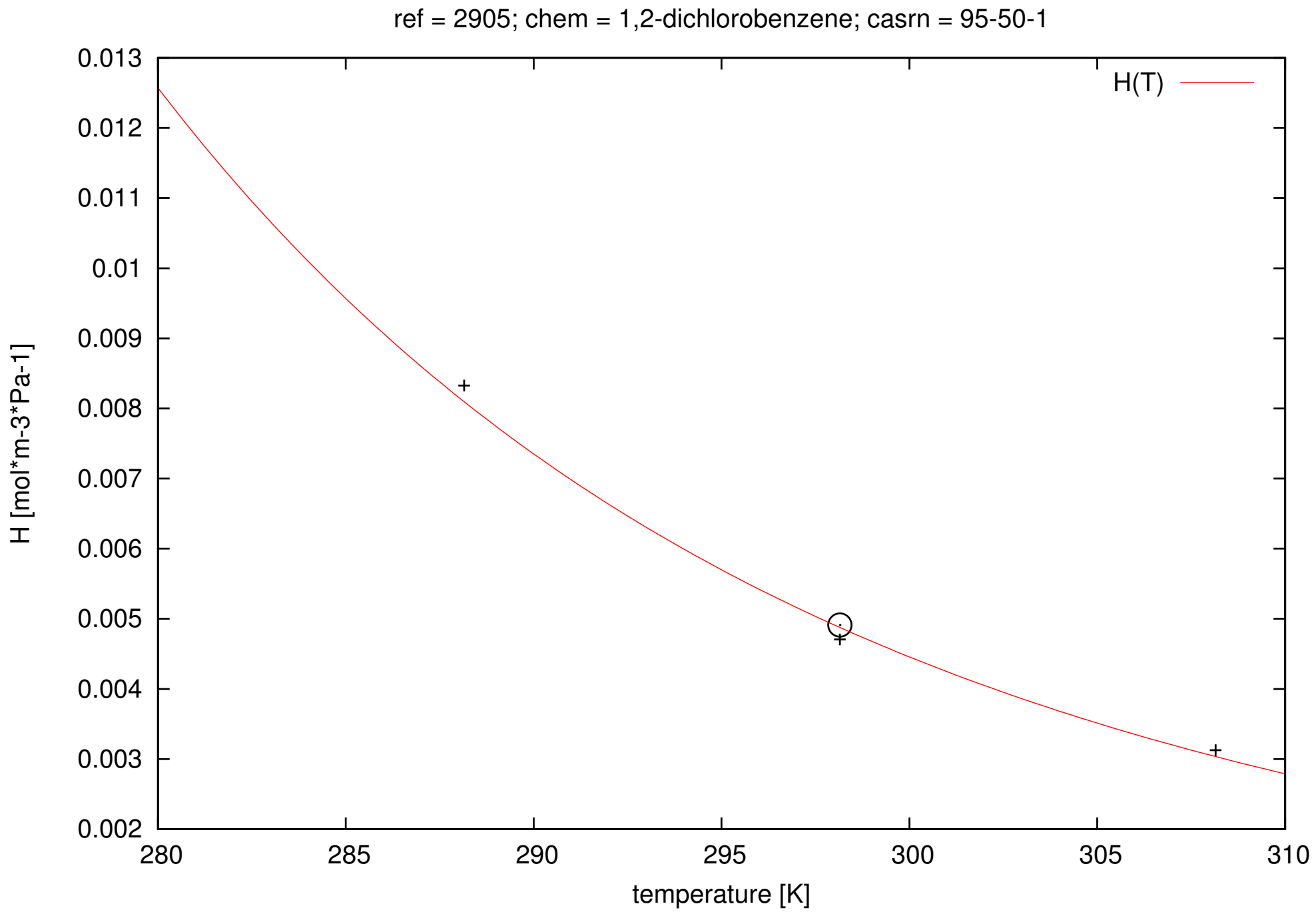

ref = 2905; chem = tetrachloromethane; casrn = 56-23-5
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0007
0.00065
0.0006
0.00055
0.0005
0.00045
0.0004
0.00035
0.0003
0.00025
280
285
290
295
300
305
310

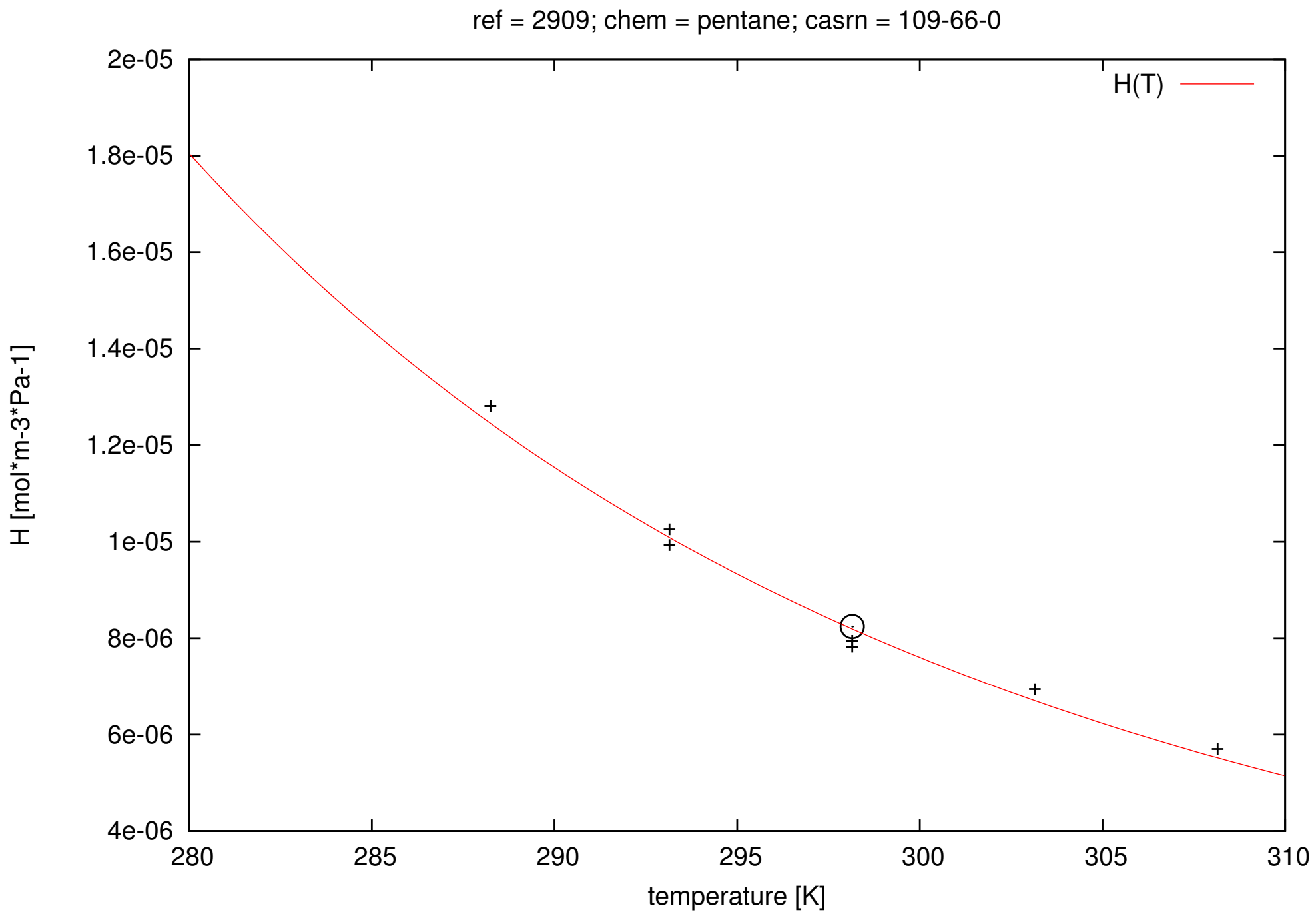

ref = 2905; chem = trichloromethane; casrn = 67-66-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
280
285
290
295
300
305
310

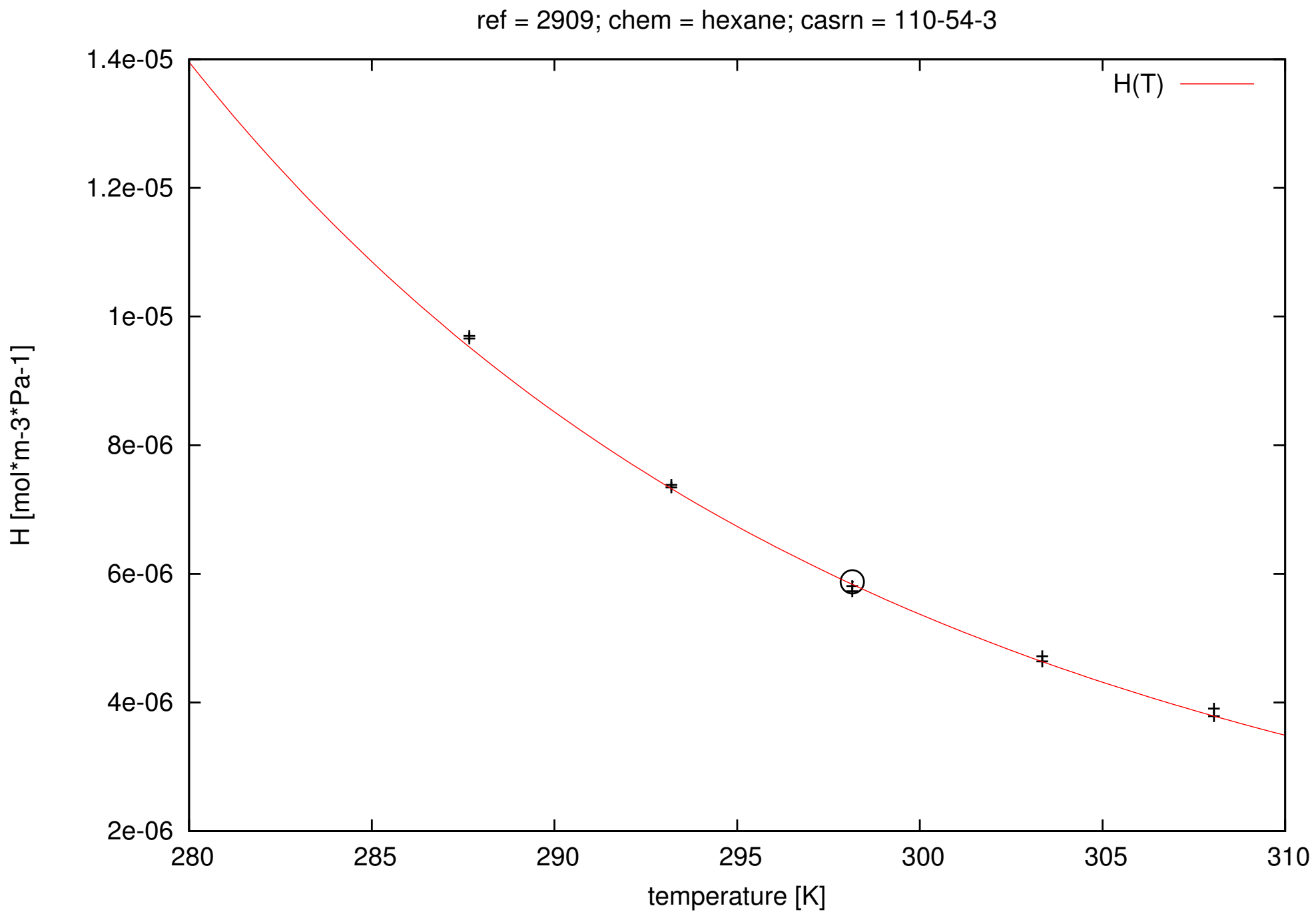

ref = 2905; chem = benzene; casrn = 71-43-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.003
0.0025
0.002
0.0015
0.001
0.0005
280
285
290
295
300
305
310

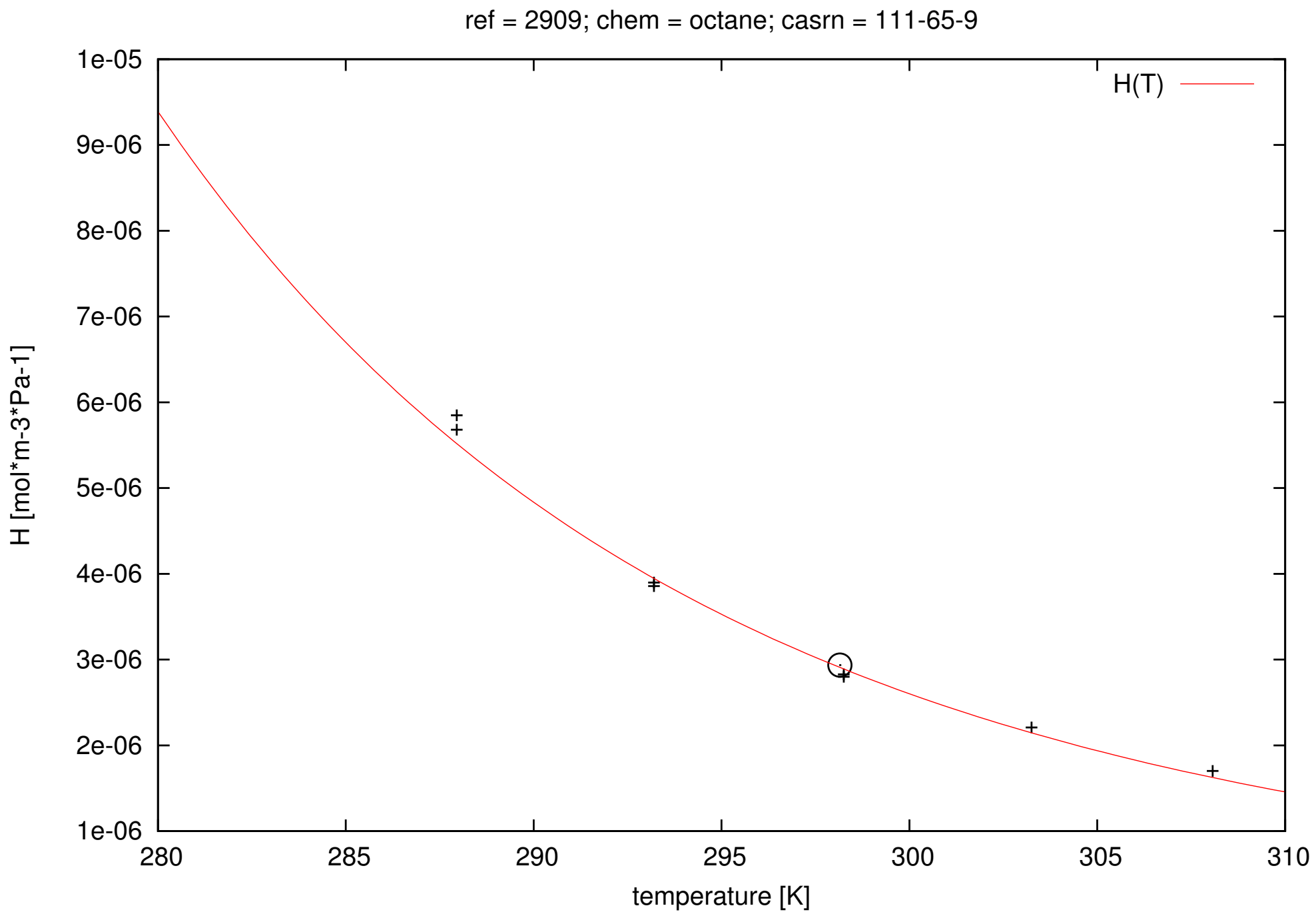

ref = 2905; chem = dichloromethane; casrn = 75-09-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
280
285
290
295
300
305
310

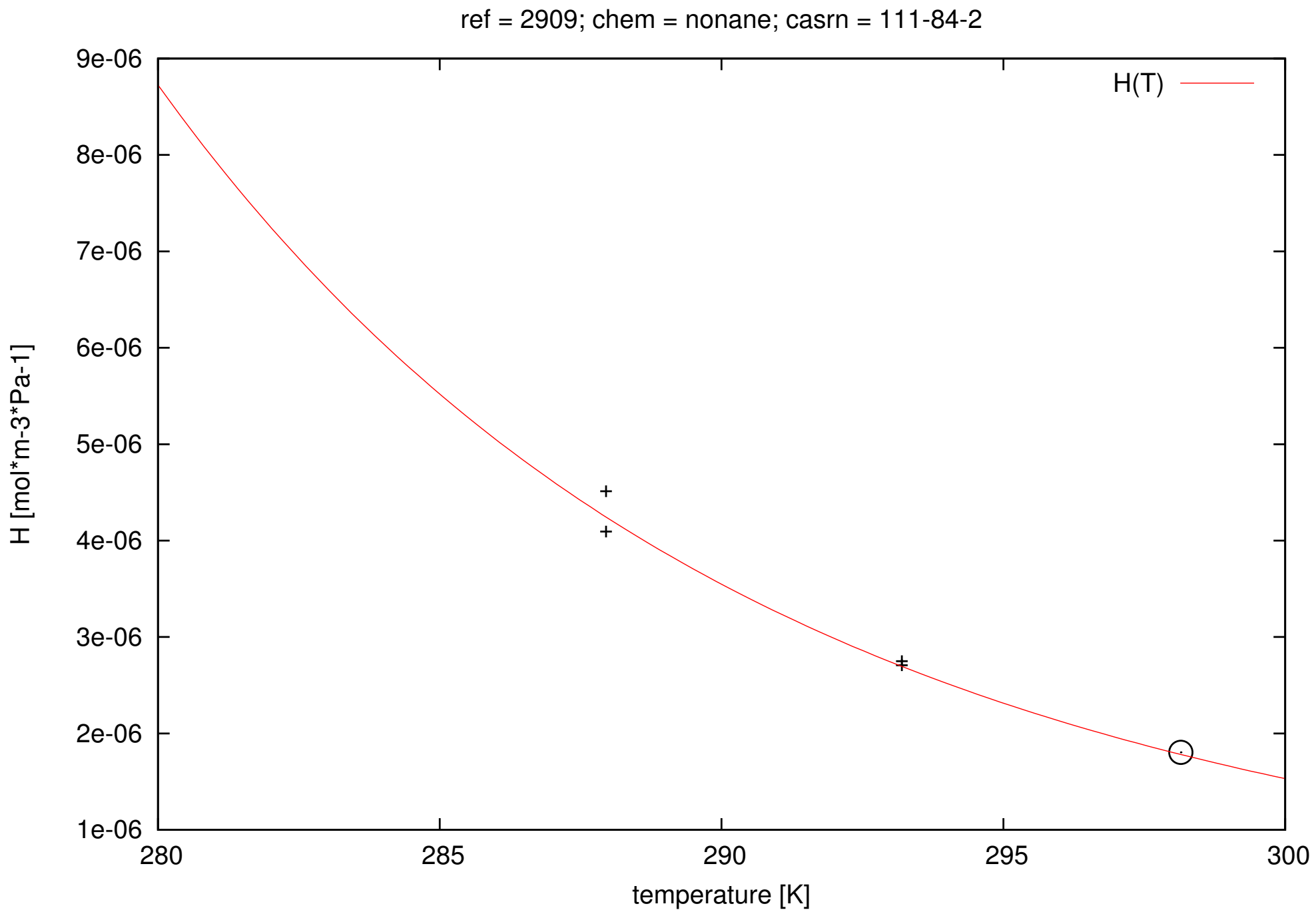

ref = 2905; chem = trichloroethene; casrn = 79-01-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
280
285
290
295
300
305
310

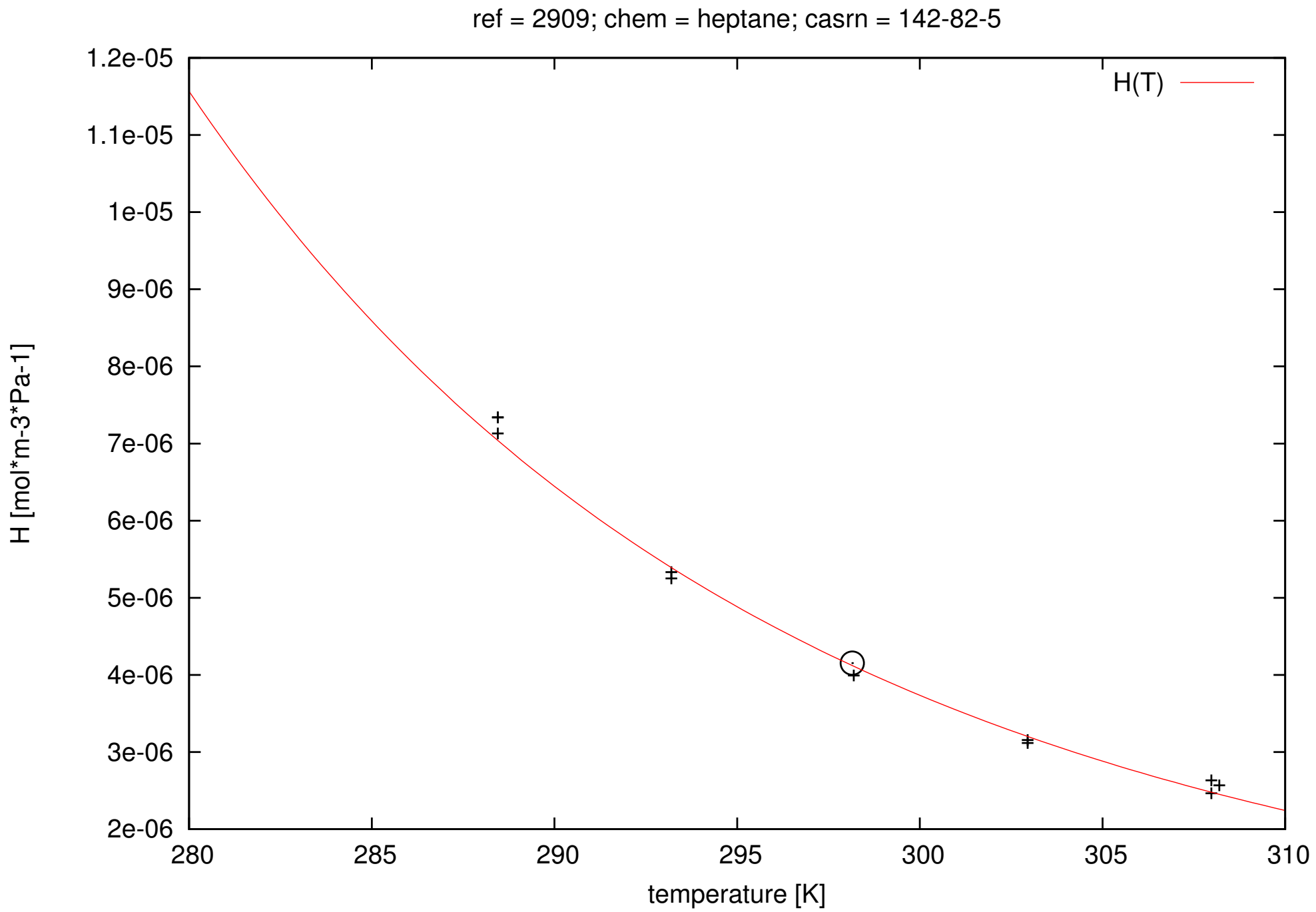

ref = 2905; chem = 1,2-dichlorobenzene; casrn = 95-50-1
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
280
285
290
295
300
305
310

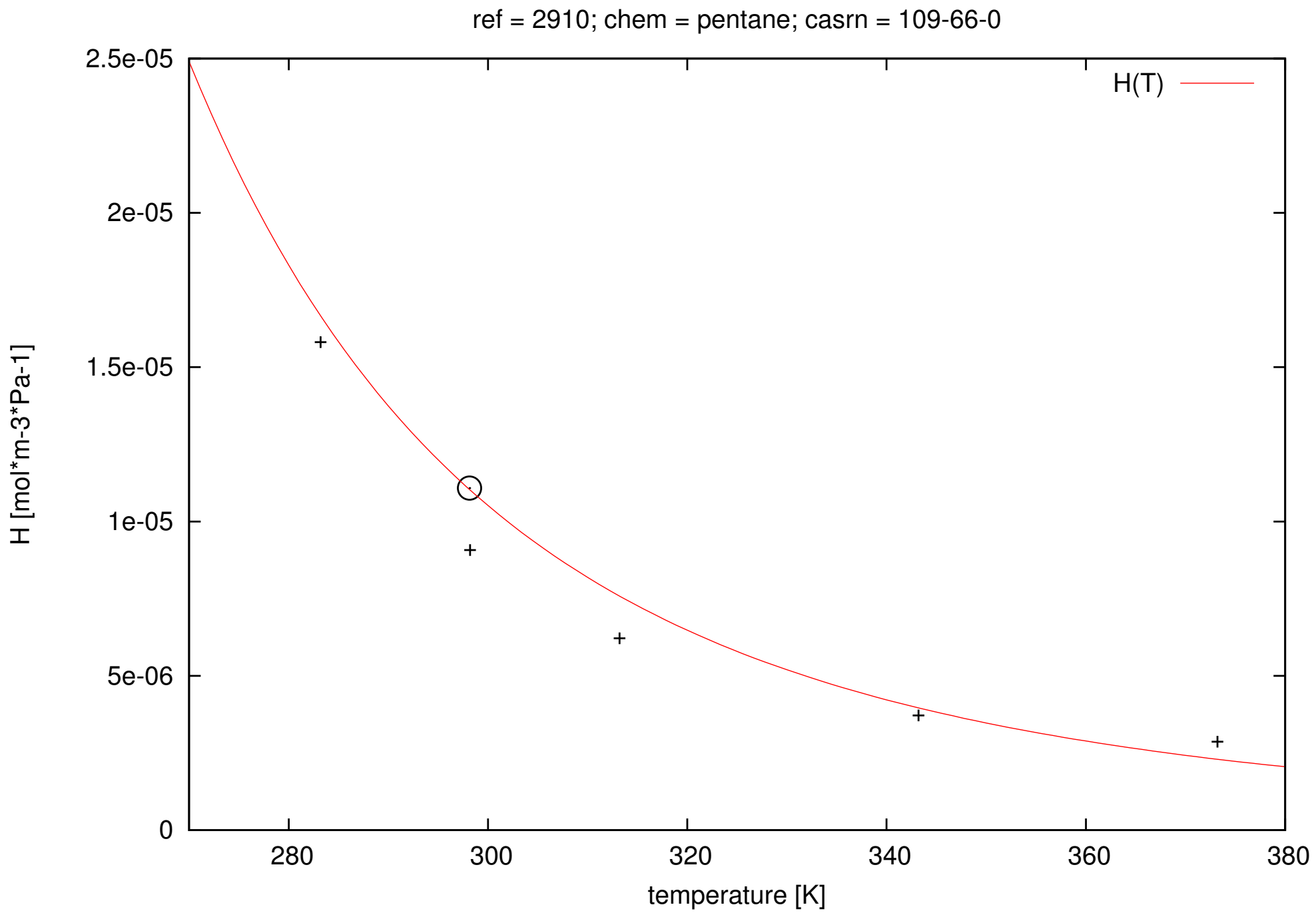

ref = 2909; chem = pentane; casrn = 109-66-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
2e-05
1.8e-05
1.6e-05
1.4e-05
1.2e-05
1e-05
8e-06
6e-06
4e-06
280
285
290
295
300
305
310

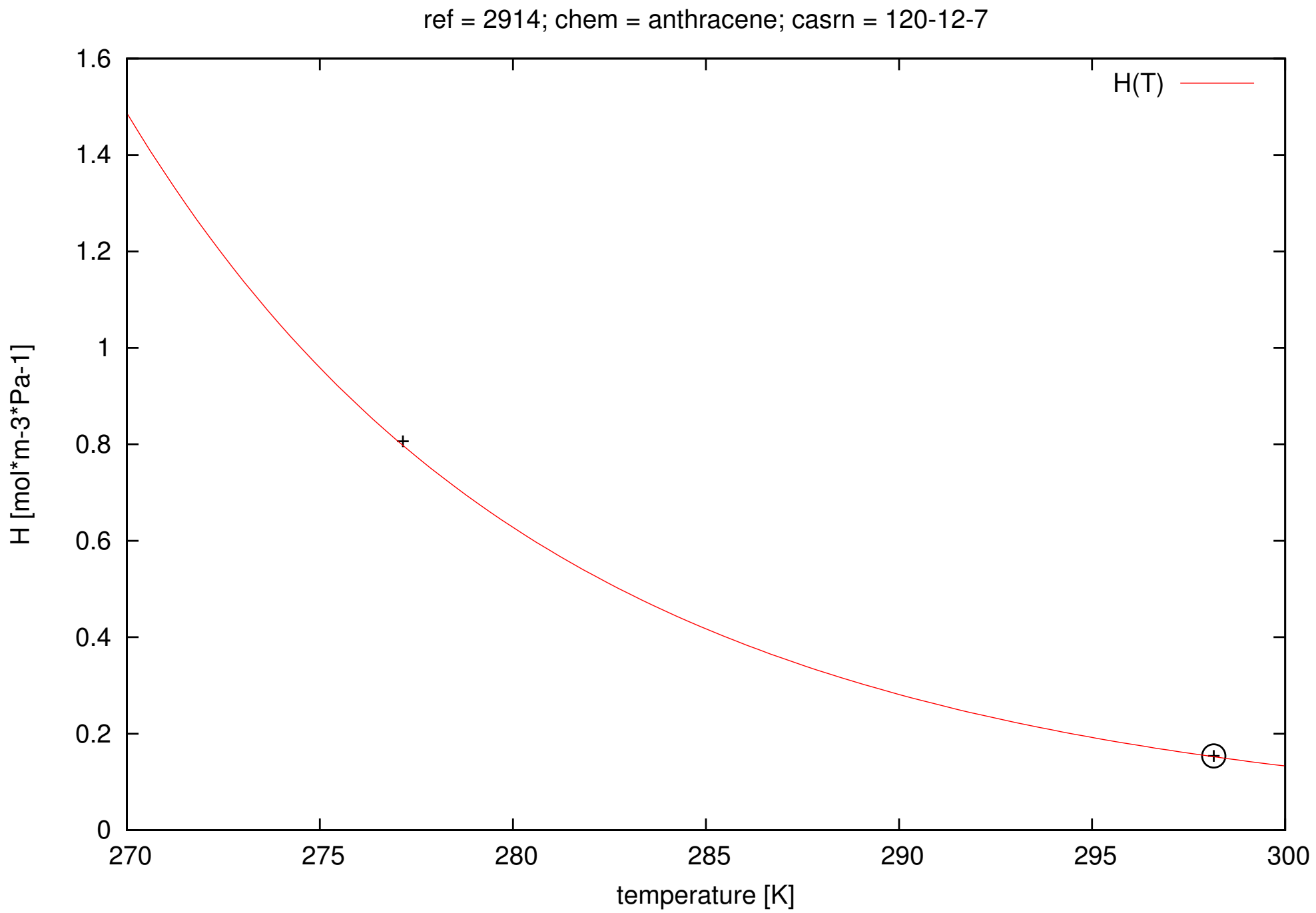

ref = 2909; chem = hexane; casrn = 110-54-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
1.4e-05
1.2e-05
1e-05
8e-06
6e-06
4e-06
2e-06
280
285
290
295
300
305
310

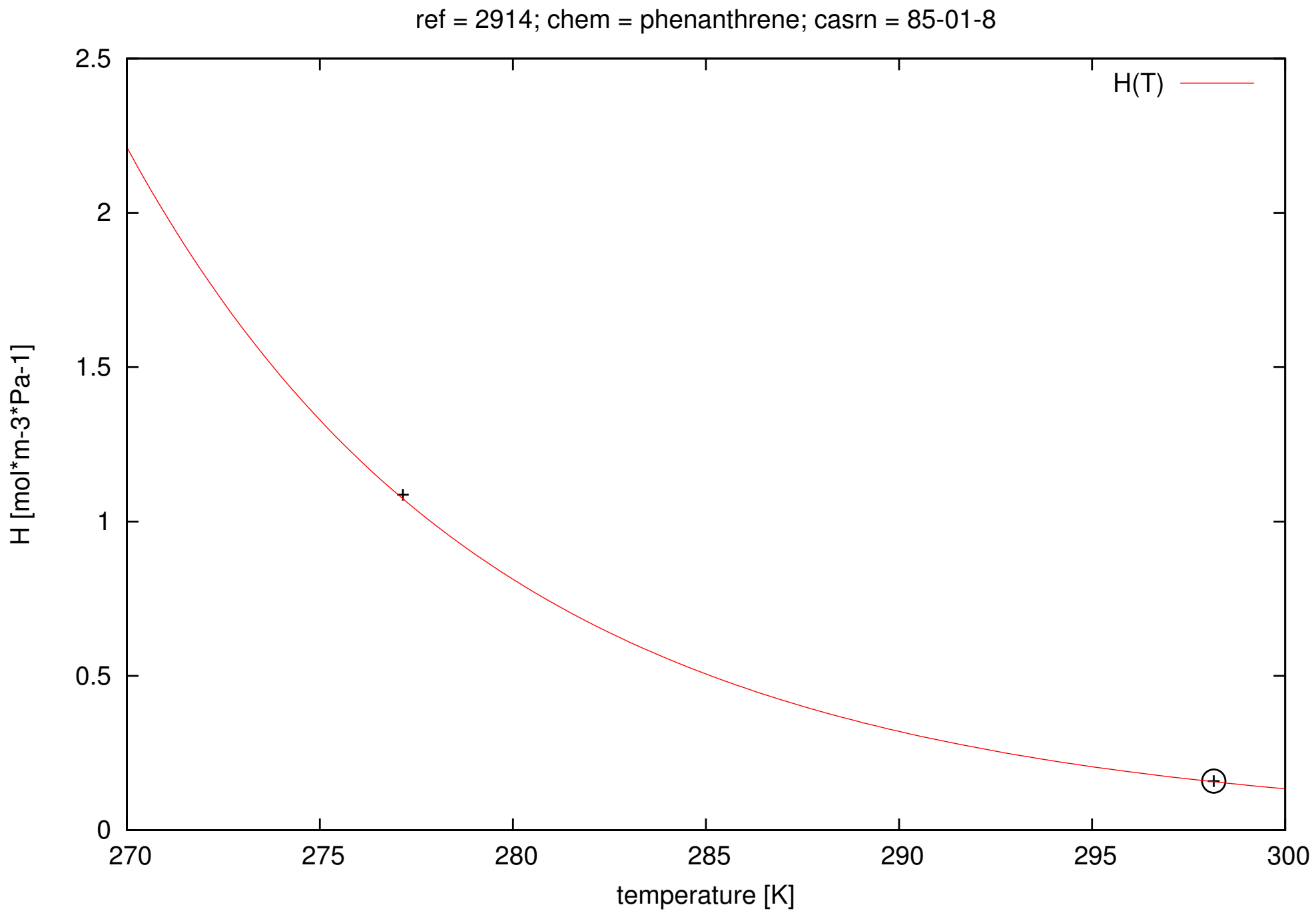

ref = 2909; chem = octane; casrn = 111-65-9
H(T)
H [mol*m-3*Pa-1]
temperature [K]
1e-05
9e-06
8e-06
7e-06
6e-06
5e-06
4e-06
3e-06
2e-06
1e-06
280
285
290
295
300
305
310

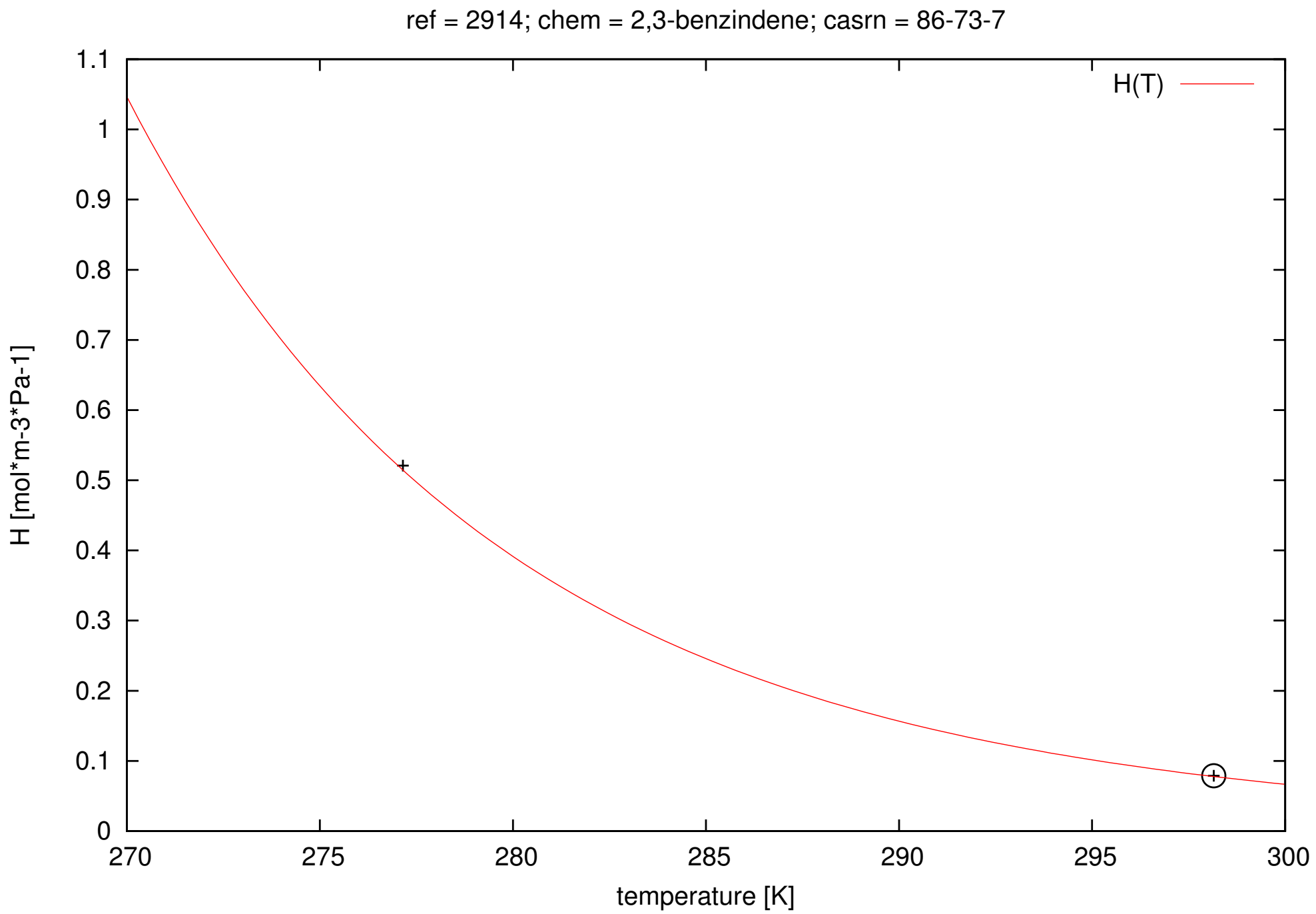

ref = 2909; chem = nonane; casrn = 111-84-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
9e-06
8e-06
7e-06
6e-06
5e-06
4e-06
3e-06
2e-06
1e-06
280
285
290
295
300

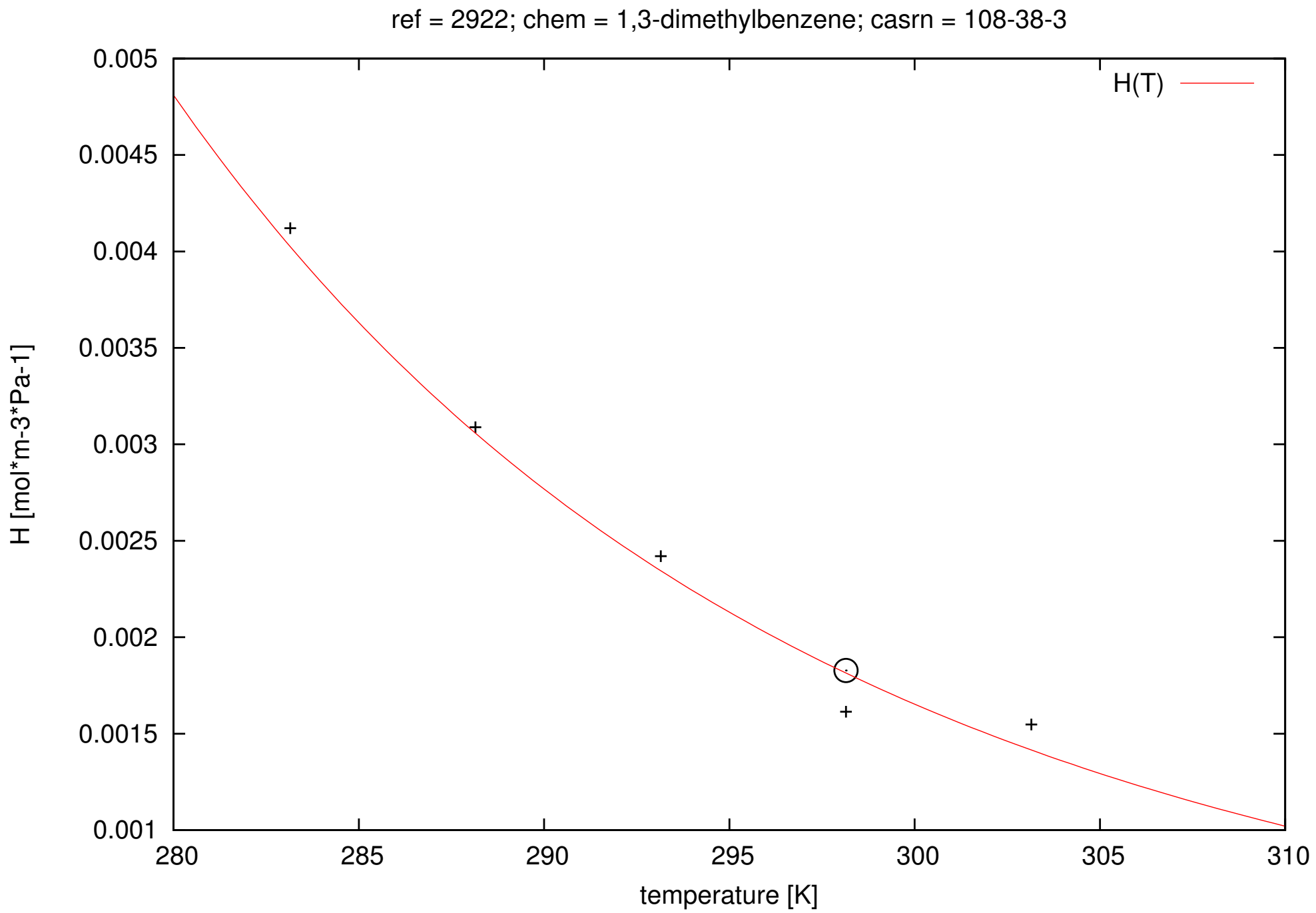

ref = 2909; chem = heptane; casrn = 142-82-5
H(T)
H [mol*m-3*Pa-1]
temperature [K]
1.2e-05
1.1e-05
1e-05
9e-06
8e-06
7e-06
6e-06
5e-06
4e-06
3e-06
2e-06
280
285
290
295
300
305
310

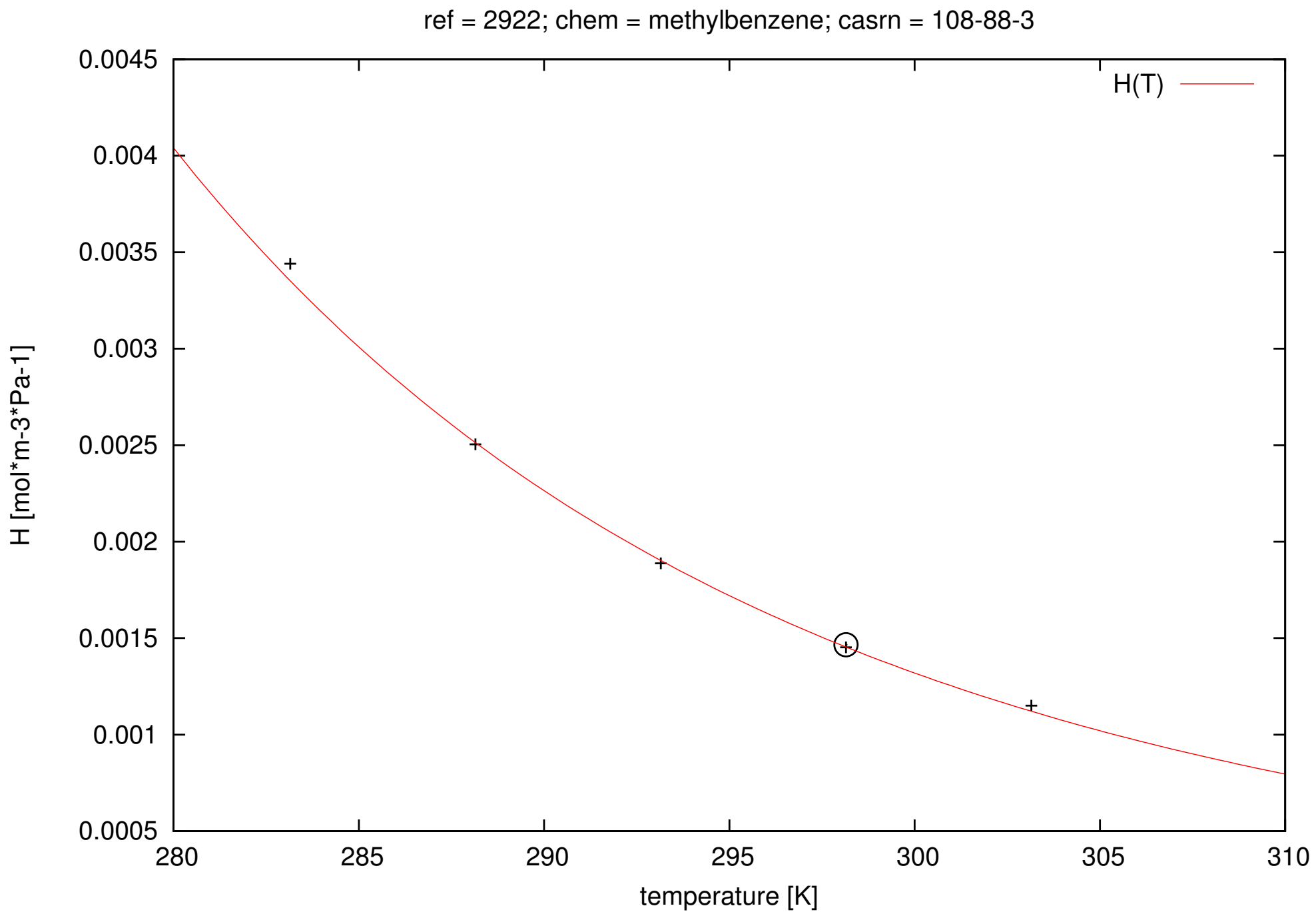

ref = 2910; chem = pentane; casrn = 109-66-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
2.5e-05
2e-05
1.5e-05
1e-05
5e-06
0
280
300
320
340
360
380

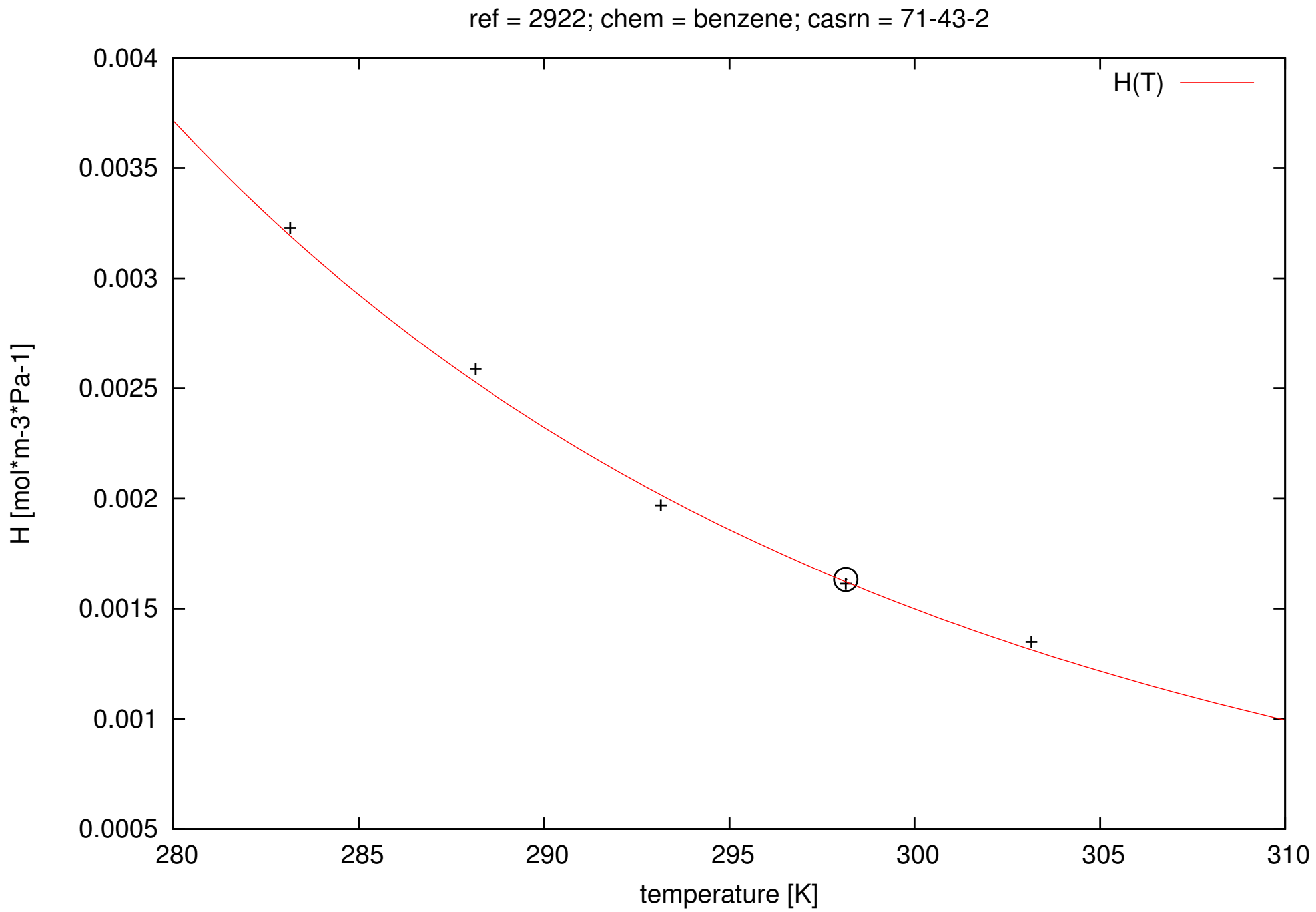

ref = 2914; chem = anthracene; casrn = 120-12-7
H(T)
H [mol*m-3*Pa-1]
temperature [K]
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
270
275
280
285
290
295
300

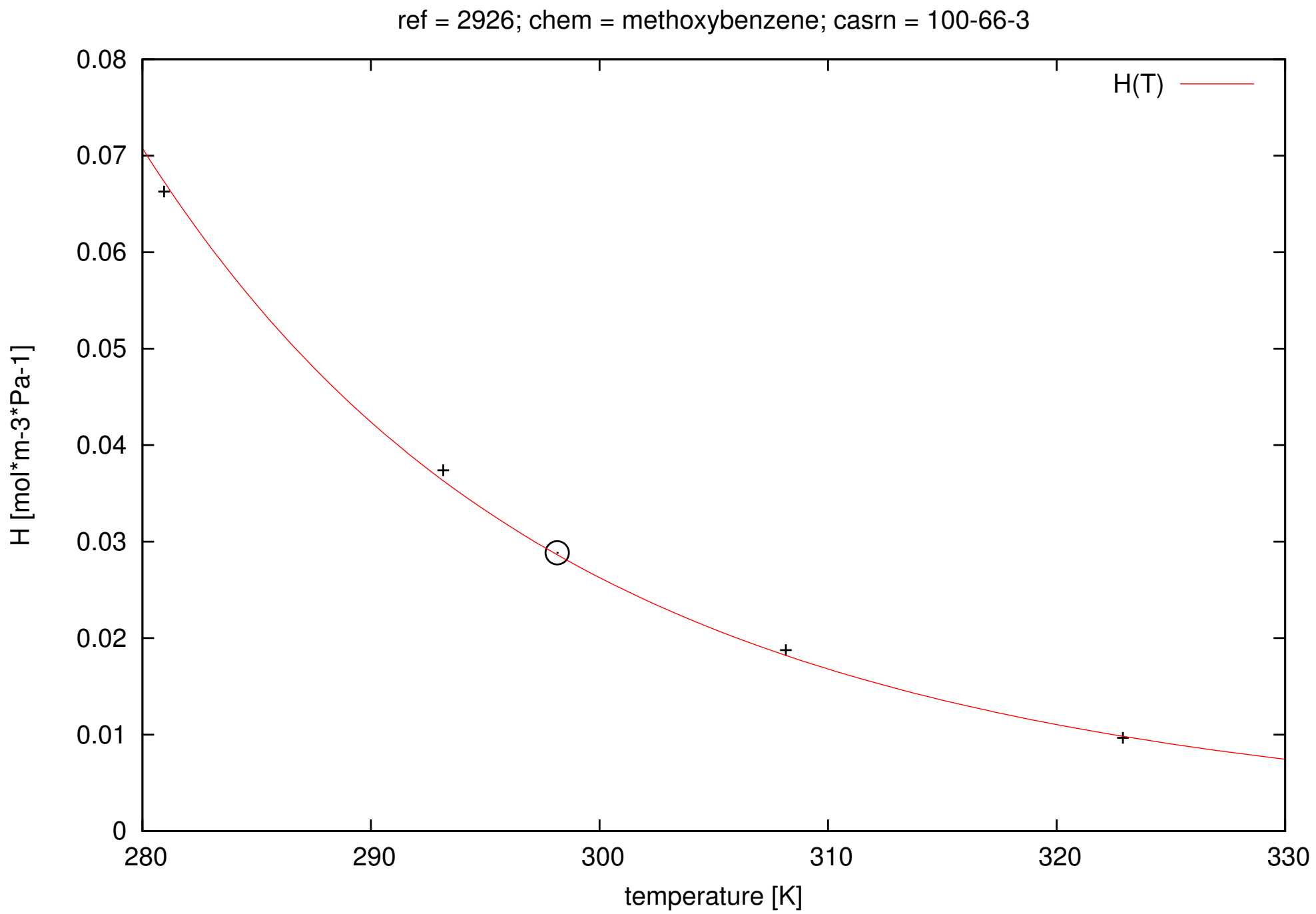

ref = 2914; chem = phenanthrene; casrn = 85-01-8
H(T)
H [mol*m-3*Pa-1]
temperature [K]
2.5
2
1.5
1
0.5
0
270
275
280
285
290
295
300

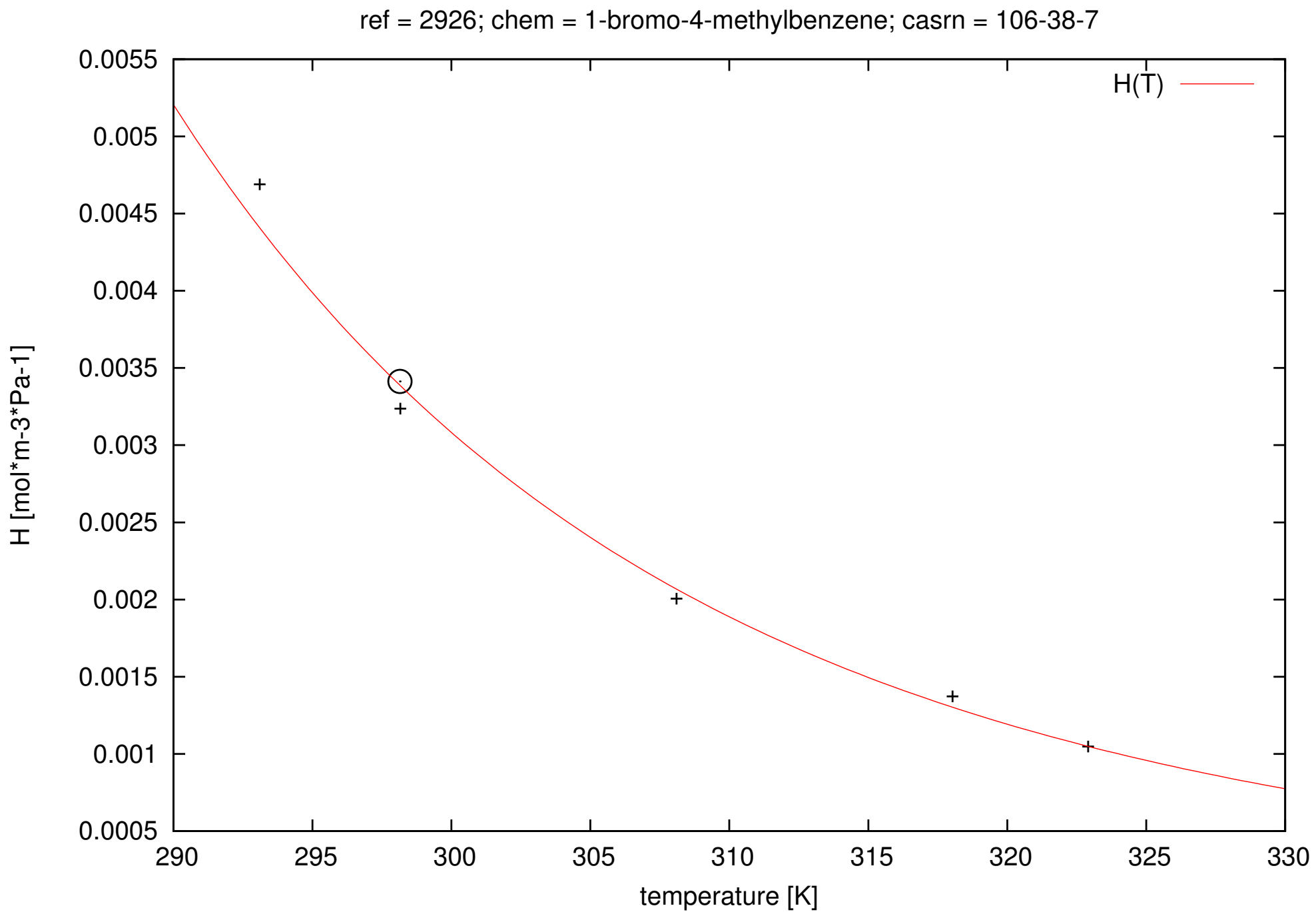

ref = 2914; chem = 2,3-benzindene; casrn = 86-73-7
H(T)
H [mol*m-3*Pa-1]
temperature [K]
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
270
275
280
285
290
295
300

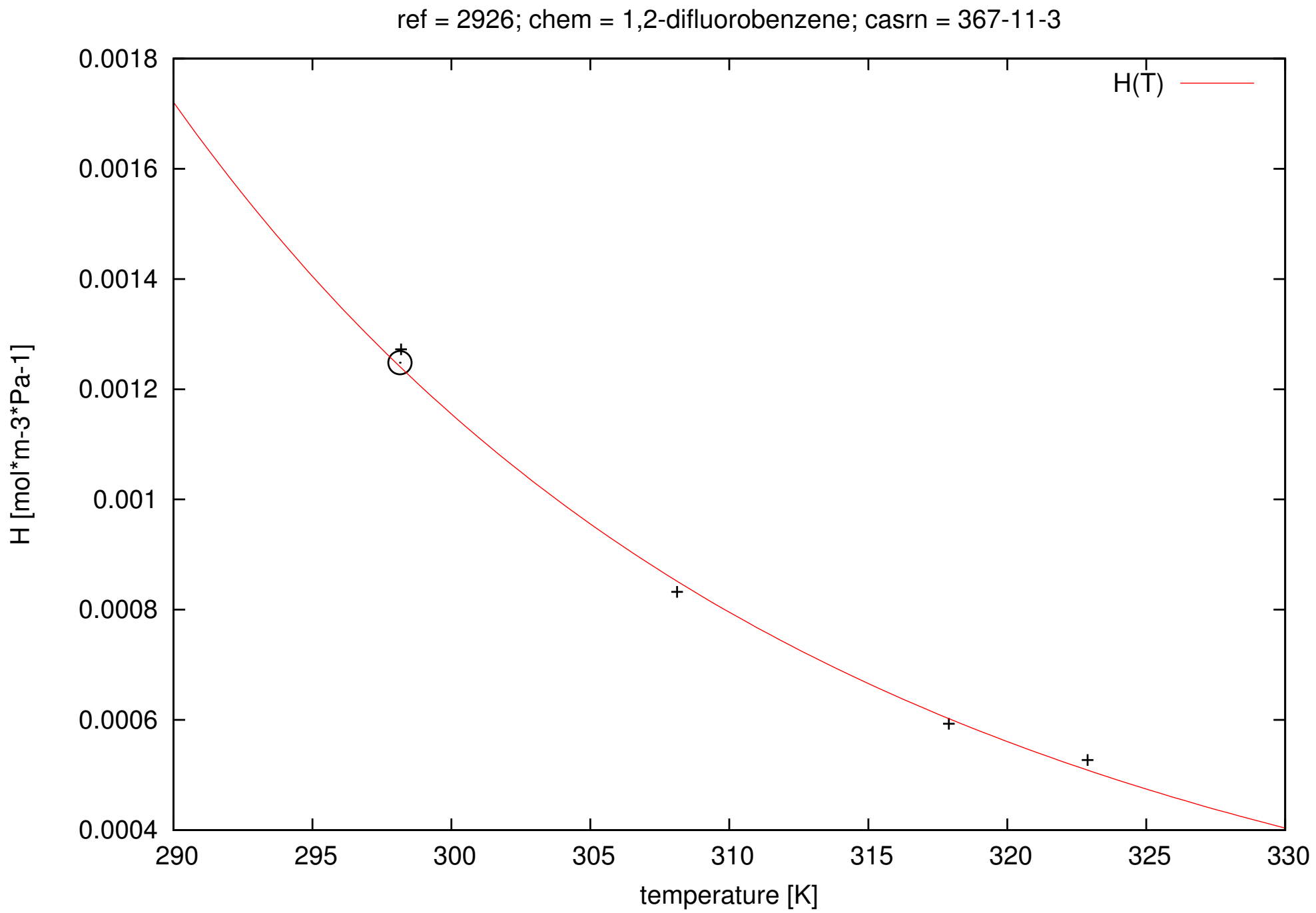

ref = 2922; chem = 1,3-dimethylbenzene; casrn = 108-38-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
280
285
290
295
300
305
310

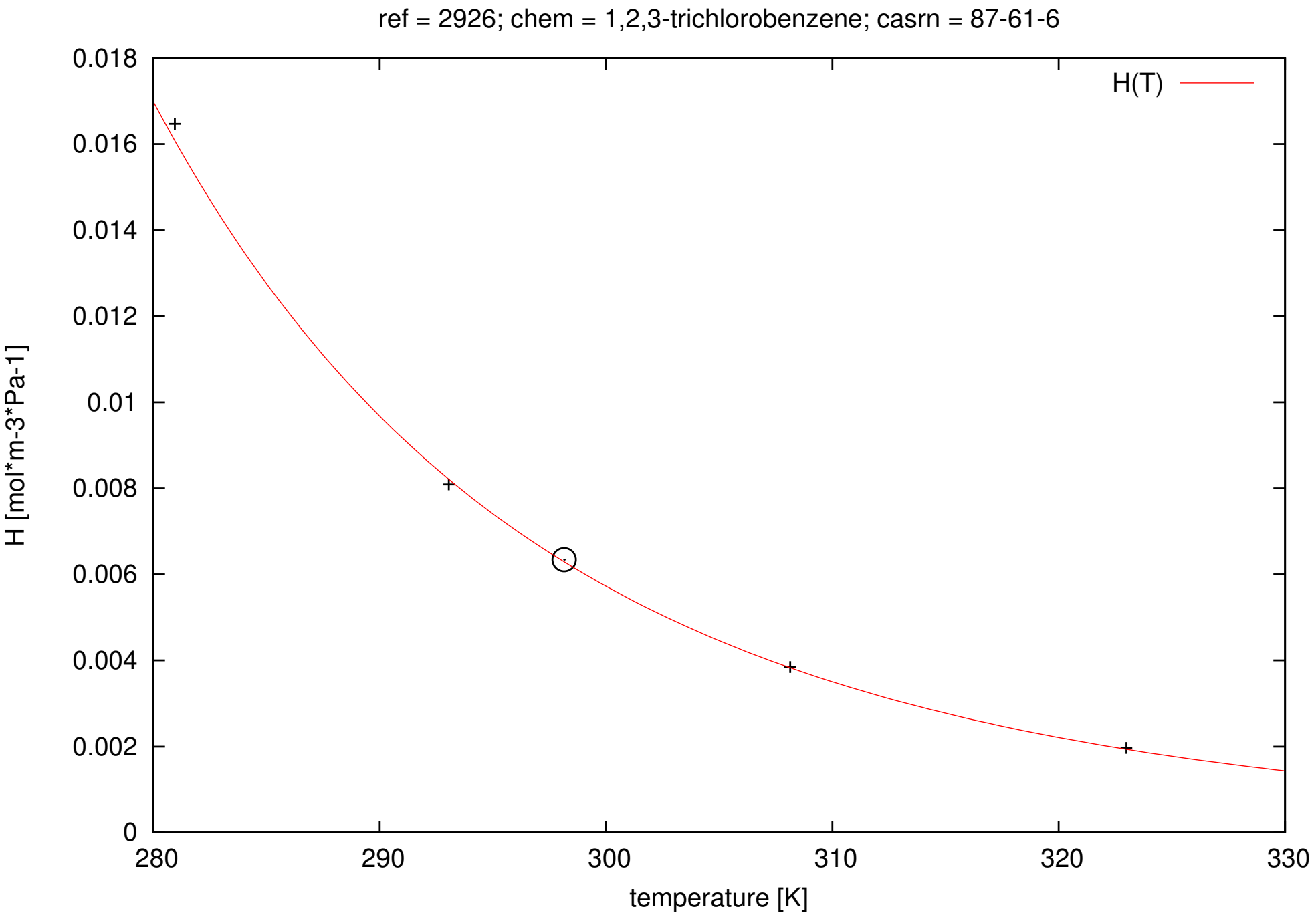

ref = 2922; chem = methylbenzene; casrn = 108-88-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
280
285
290
295
300
305
310

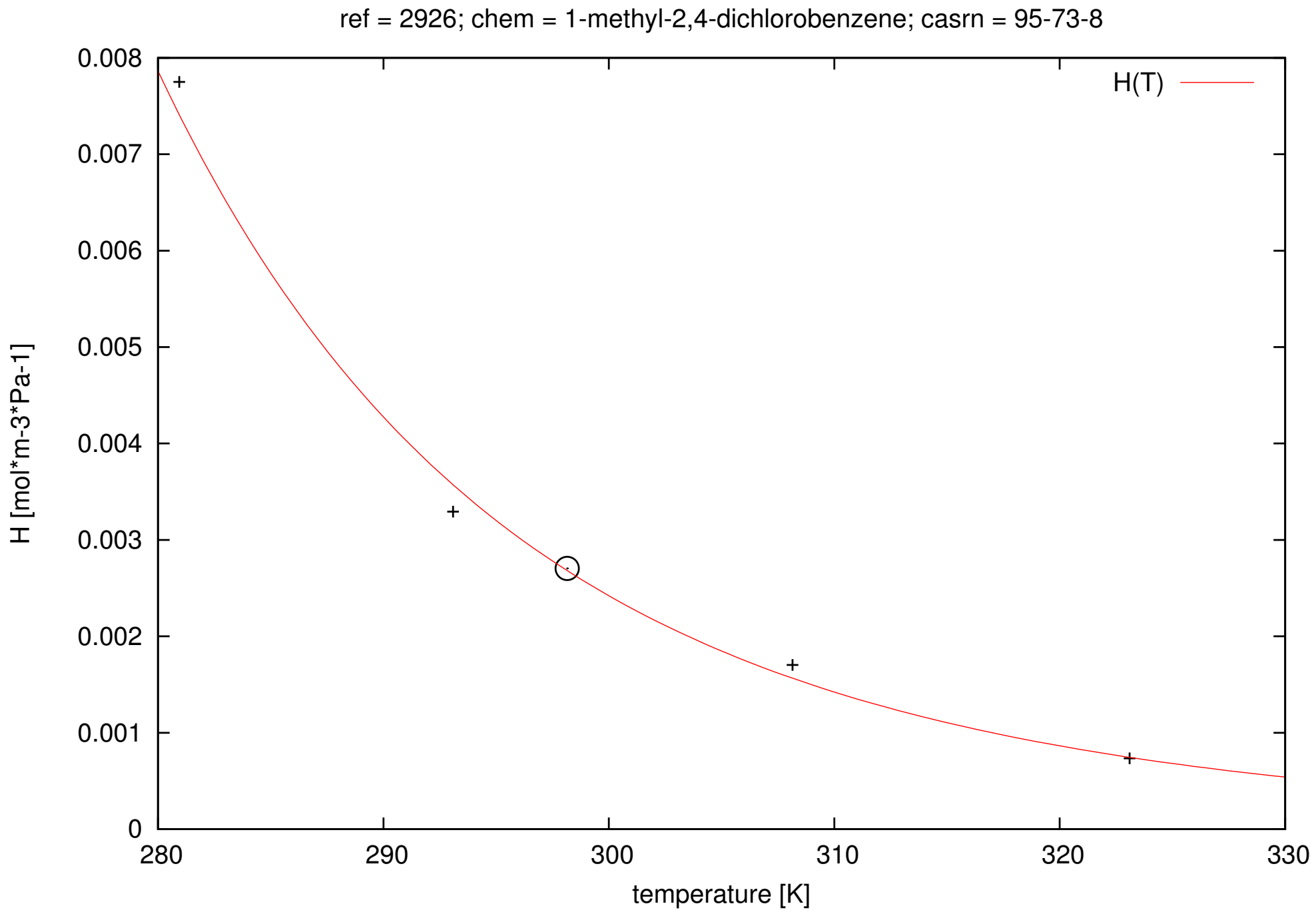

ref = 2922; chem = benzene; casrn = 71-43-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
280
285
290
295
300
305
310

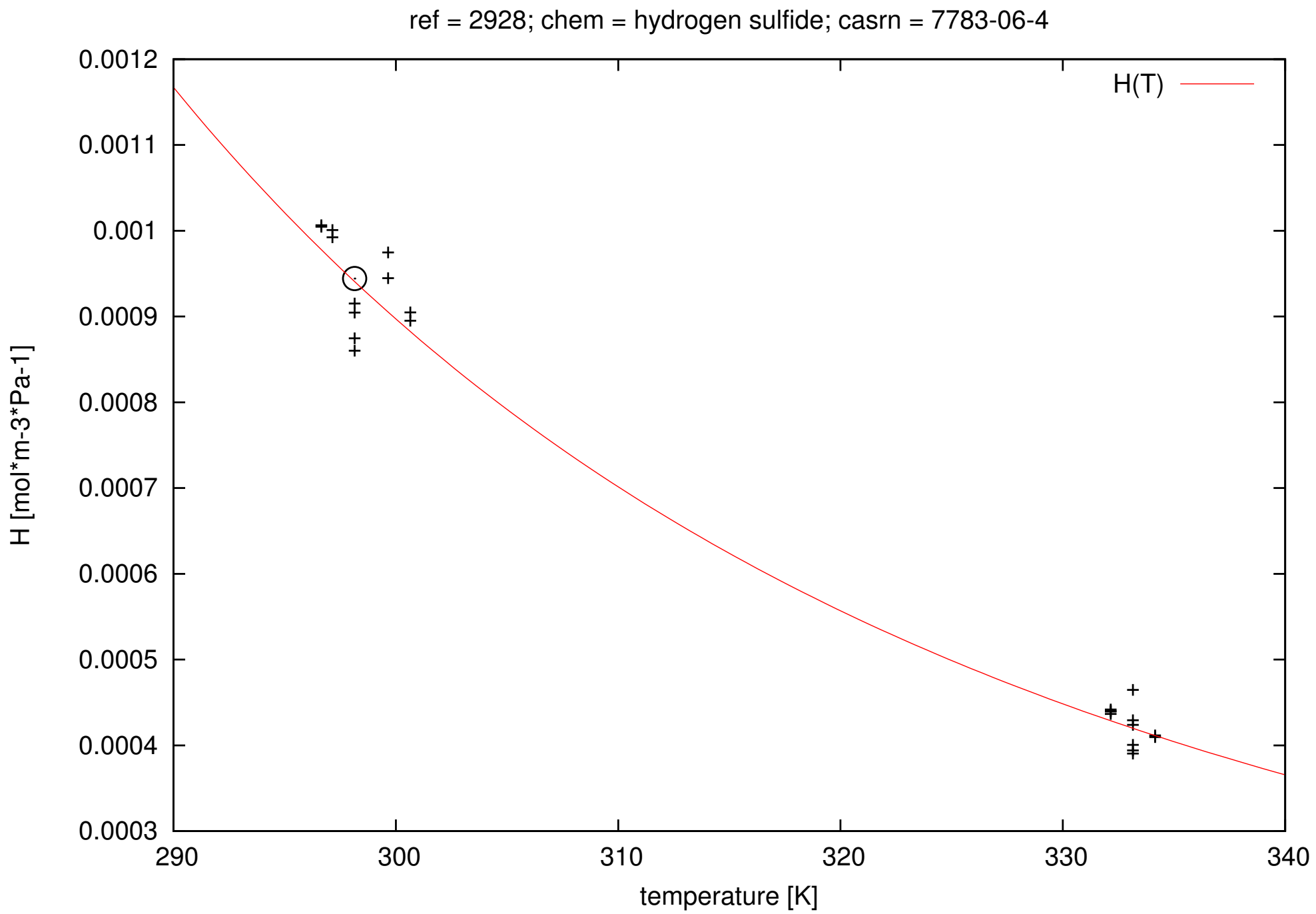

ref = 2926; chem = methoxybenzene; casrn = 100-66-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
280
290
300
310
320
330

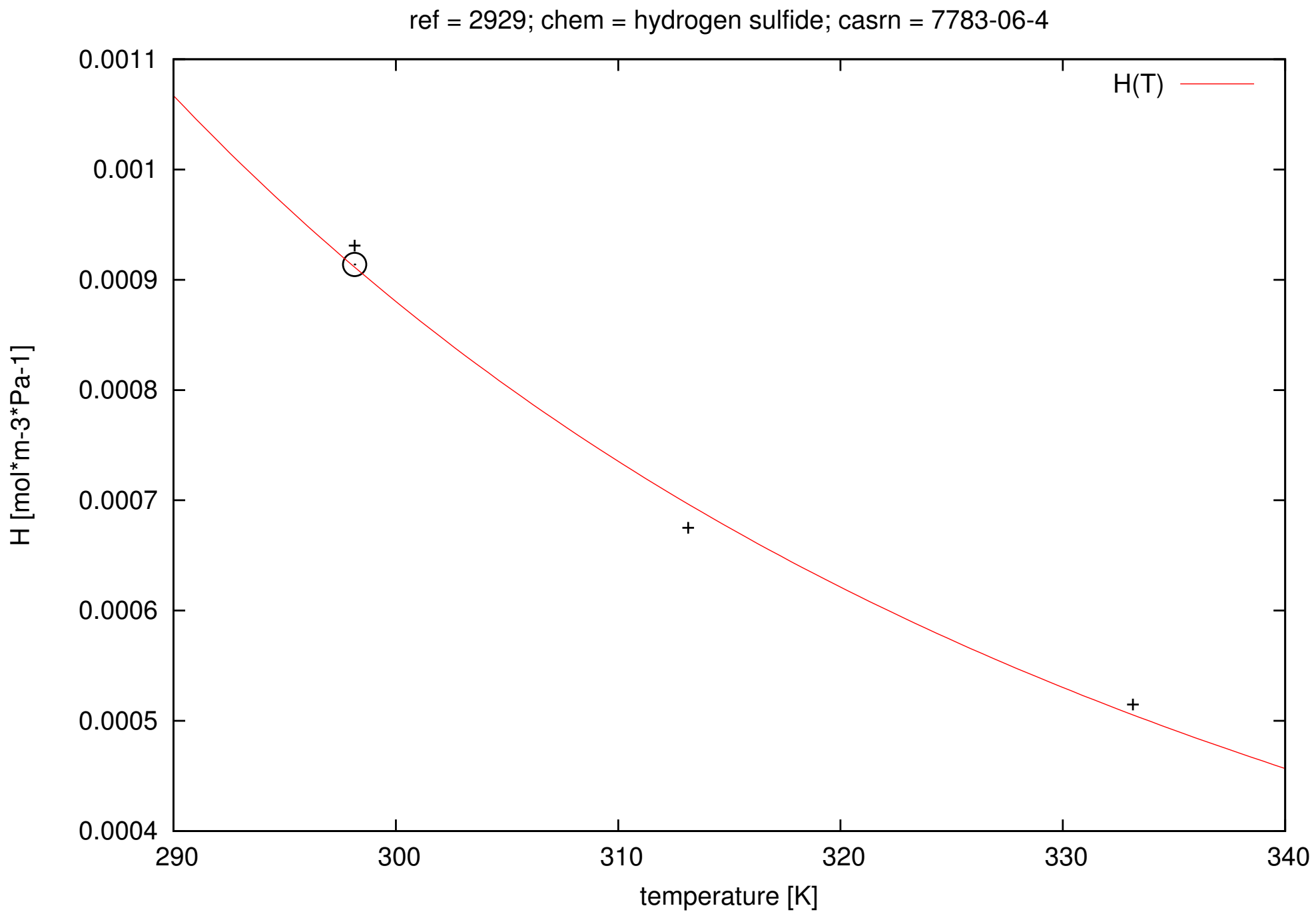

ref = 2926; chem = 1-bromo-4-methylbenzene; casrn = 106-38-7
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
290
295
300
305
310
315
320
325
330

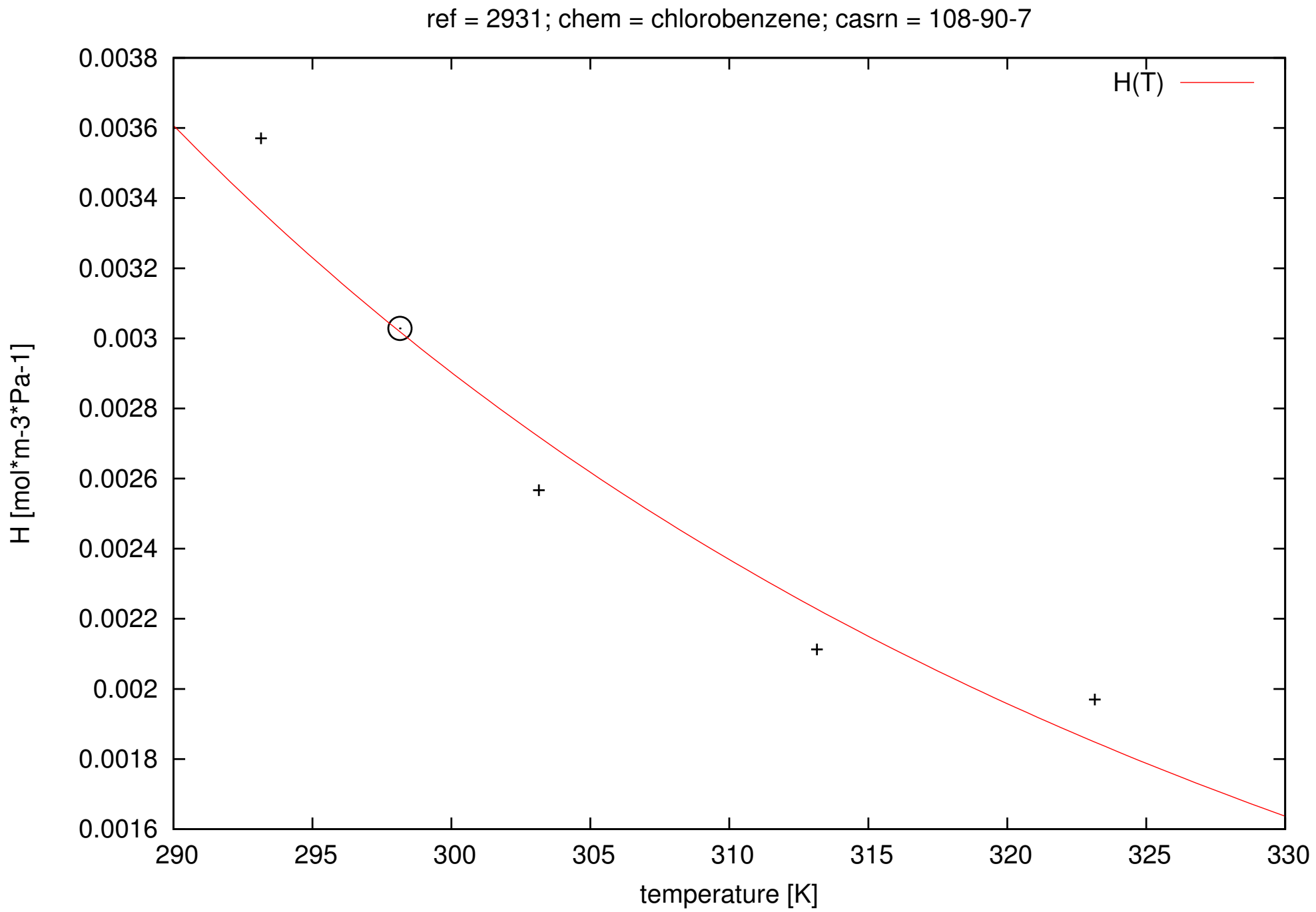

ref = 2926; chem = 1,2-difluorobenzene; casrn = 367-11-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
290
295
300
305
310
315
320
325
330

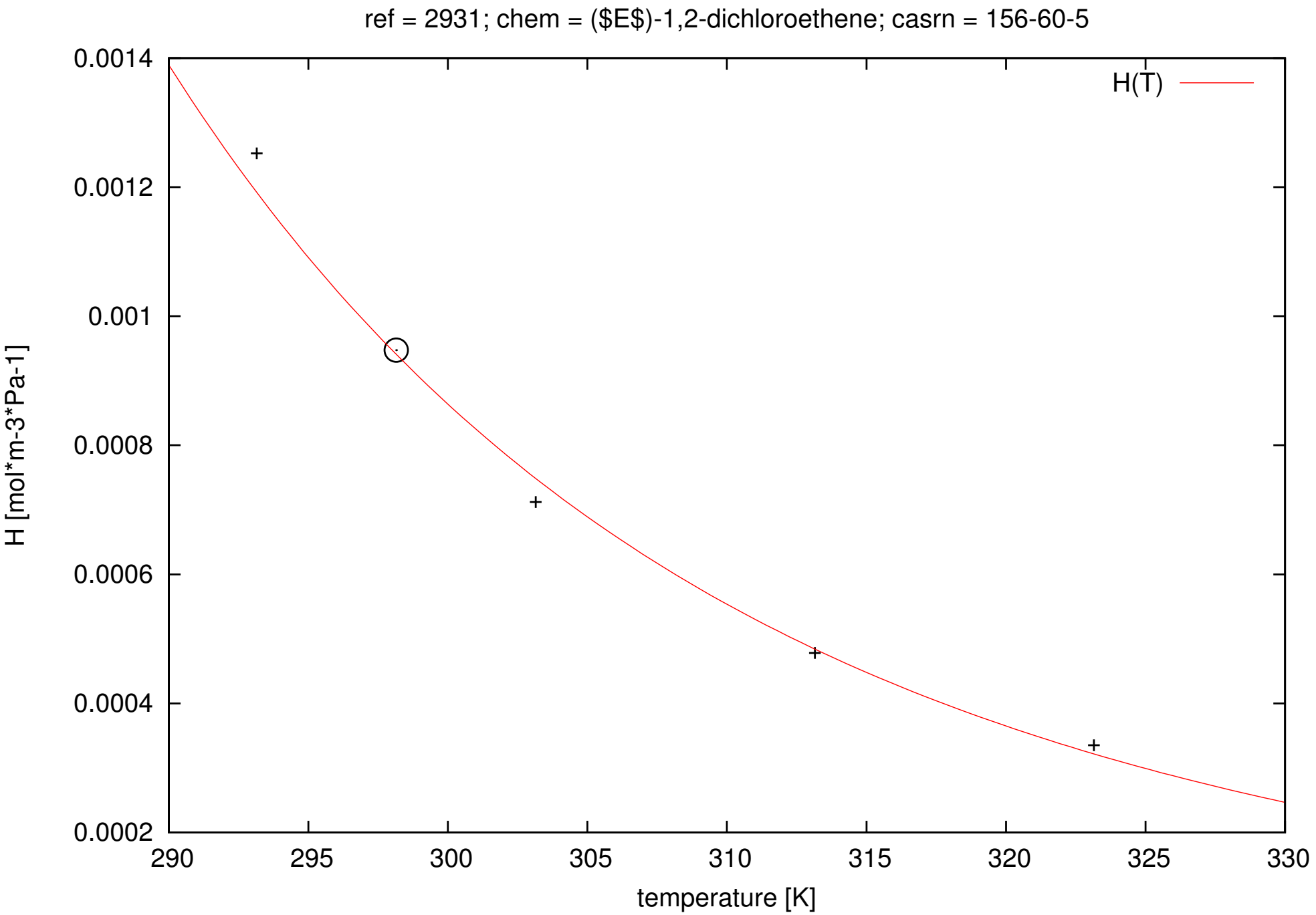

ref = 2926; chem = 1,2,3-trichlorobenzene; casrn = 87-61-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
280
290
300
310
320
330

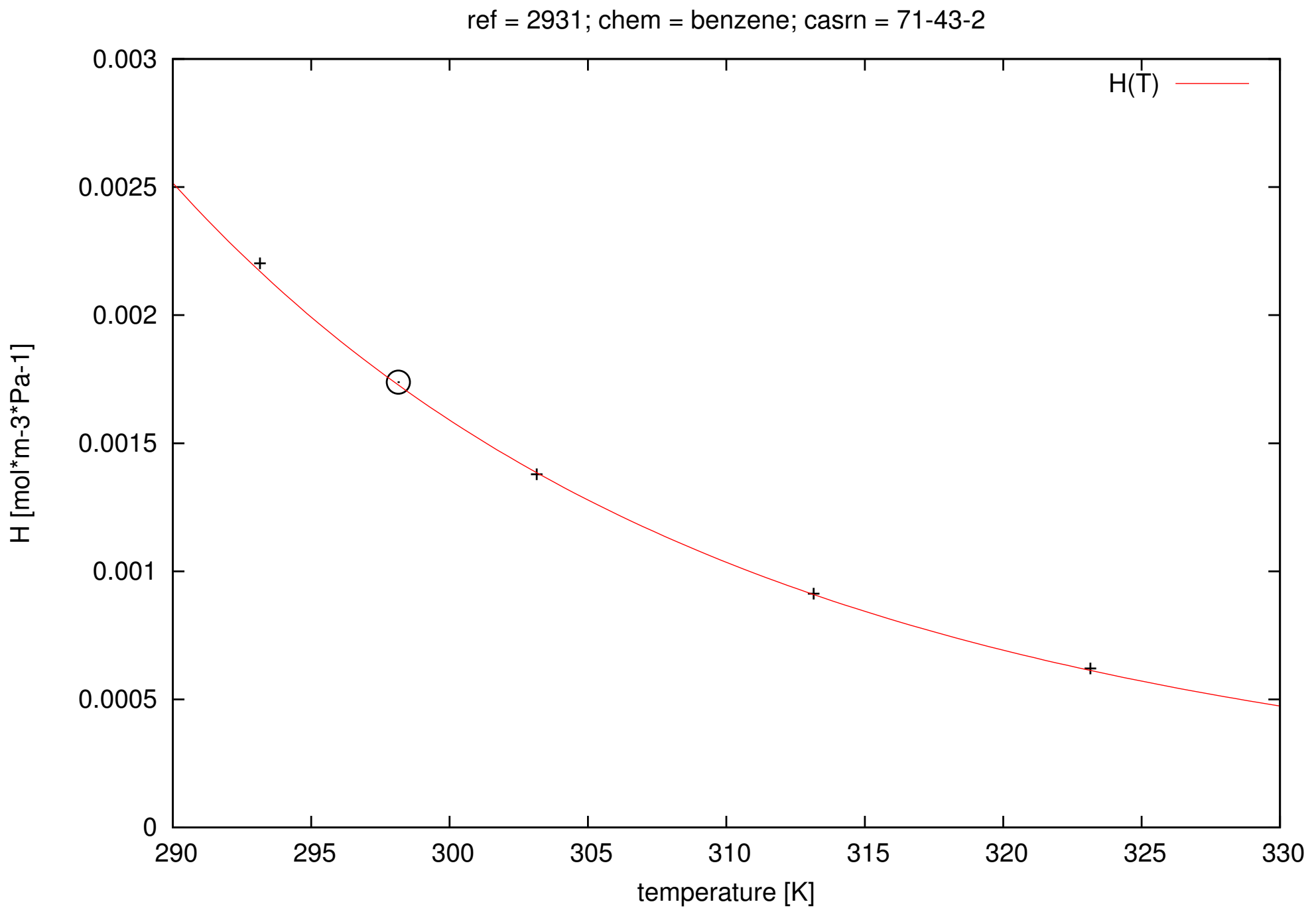

ref = 2926; chem = 1-methyl-2,4-dichlorobenzene; casrn = 95-73-8
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0
280
290
300
310
320
330

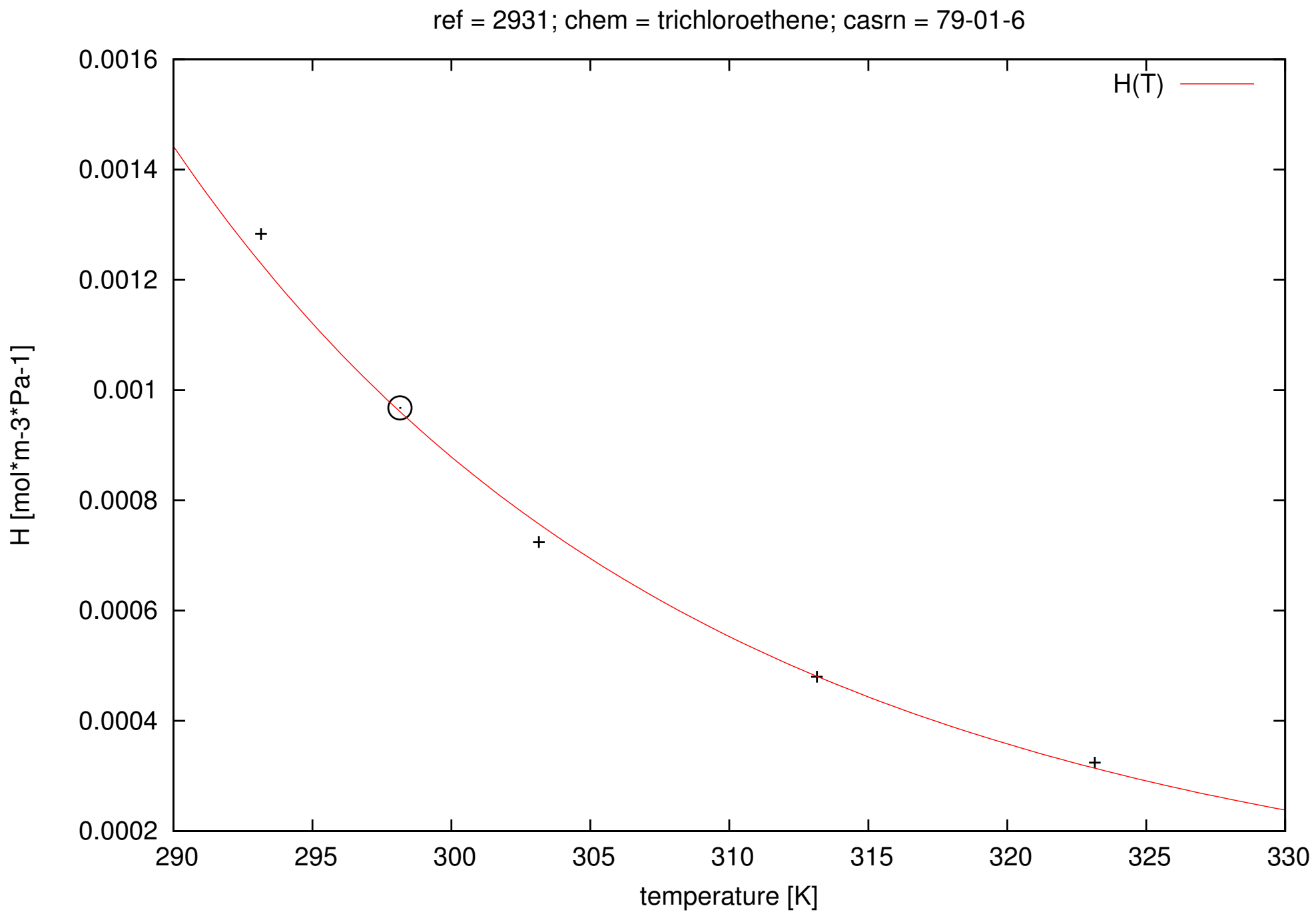

ref = 2928; chem = hydrogen sulfide; casrn = 7783-06-4
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0012
0.0011
0.001
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
290
300
310
320
330
340

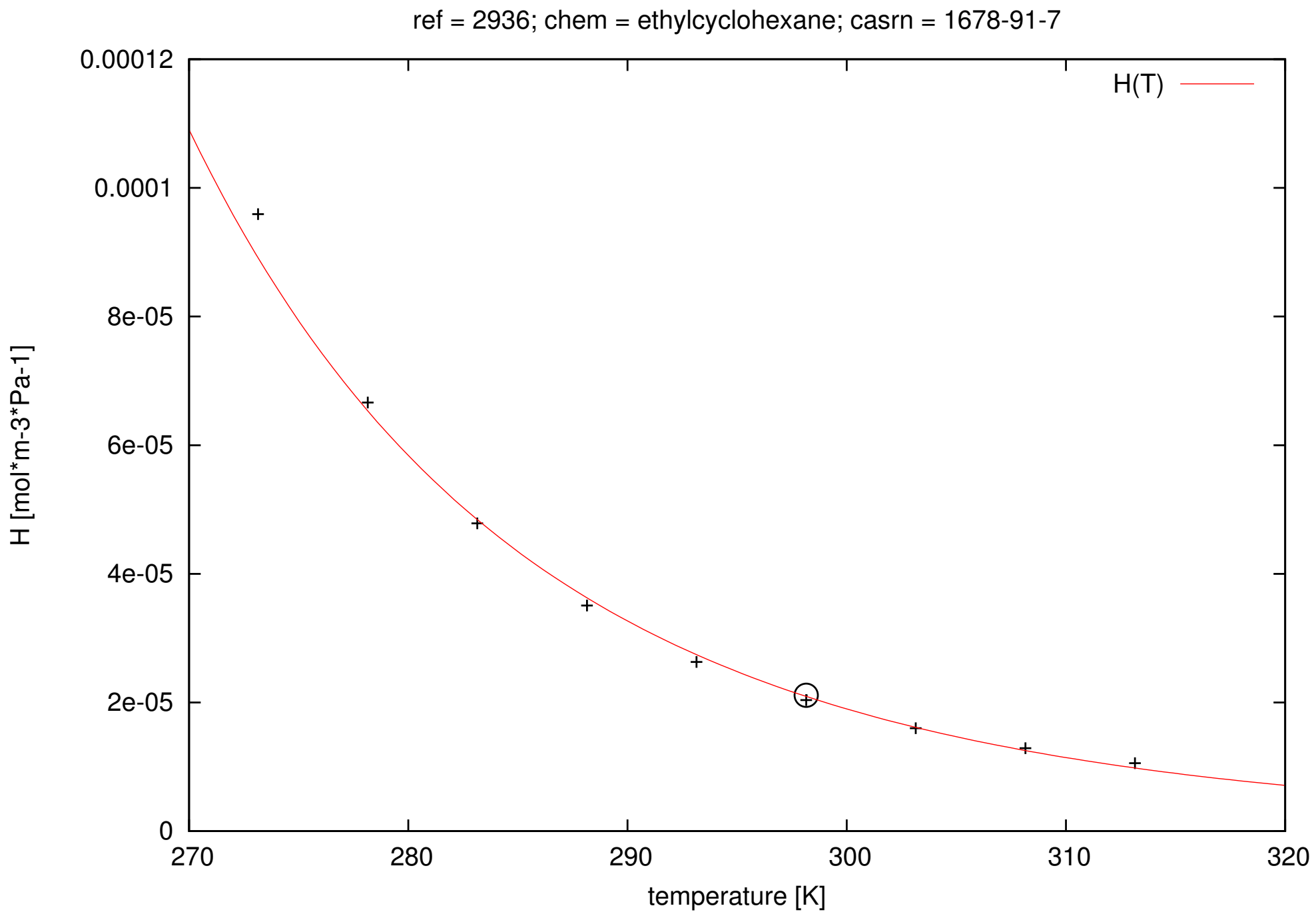

ref = 2929; chem = hydrogen sulfide; casrn = 7783-06-4
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0011
0.001
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004
290
300
310
320
330
340

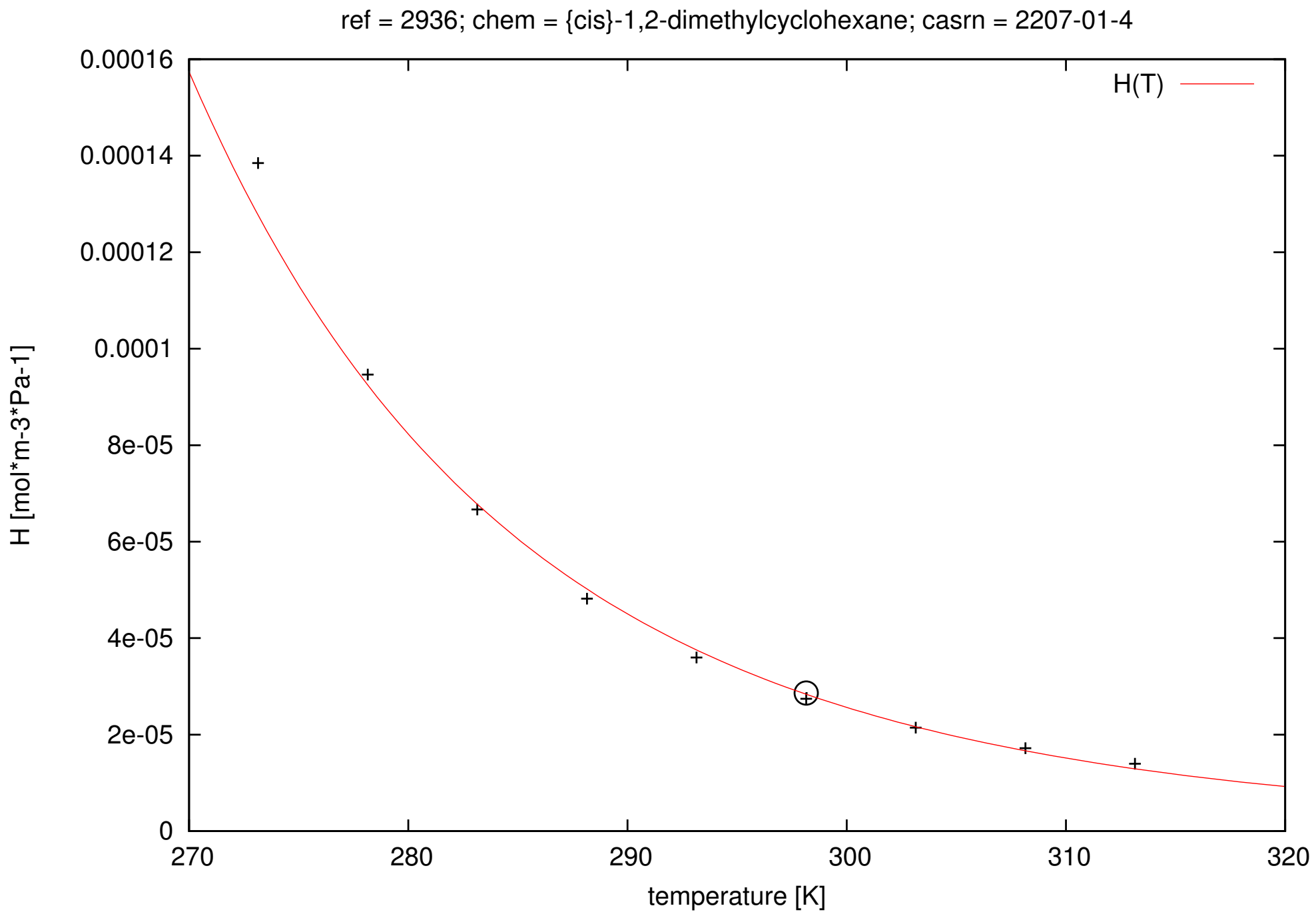

ref = 2931; chem = chlorobenzene; casrn = 108-90-7
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
290
295
300
305
310
315
320
325
330

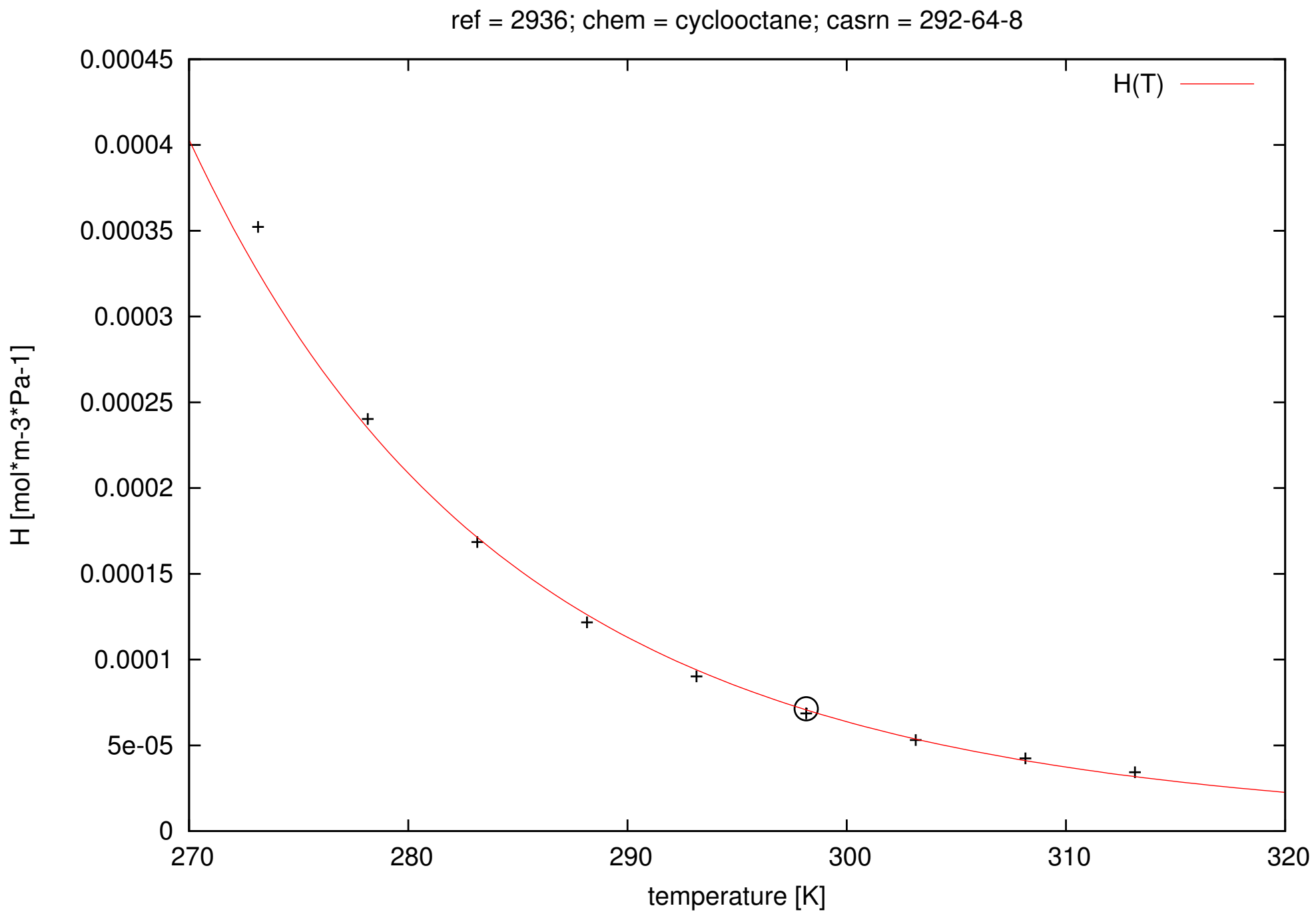

ref = 2931; chem = (E)-1,2-dichloroethene; casrn = 156-60-5
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
290
295
300
305
310
315
320
325
330

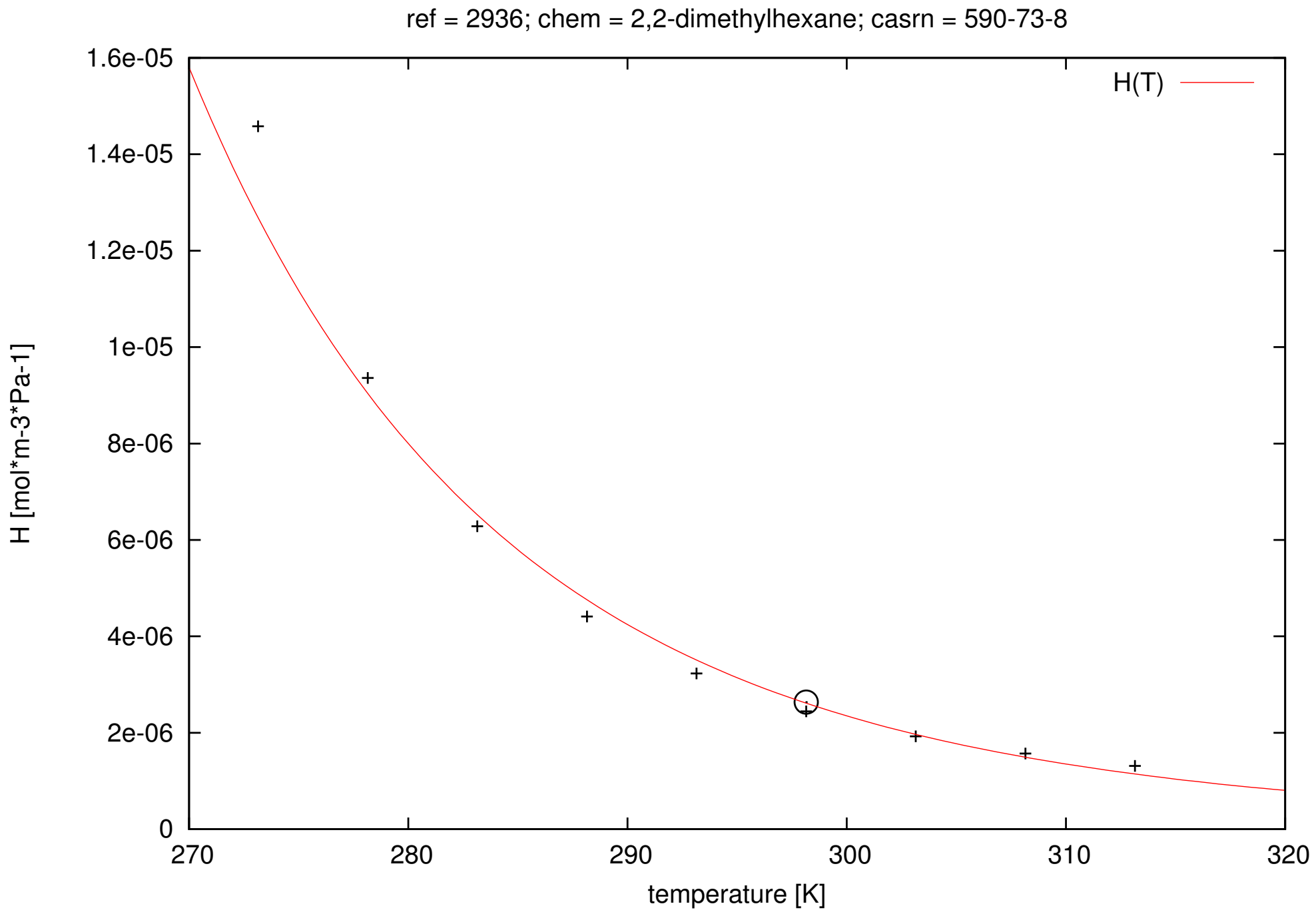

ref = 2931; chem = benzene; casrn = 71-43-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
290
295
300
305
310
315
320
325
330

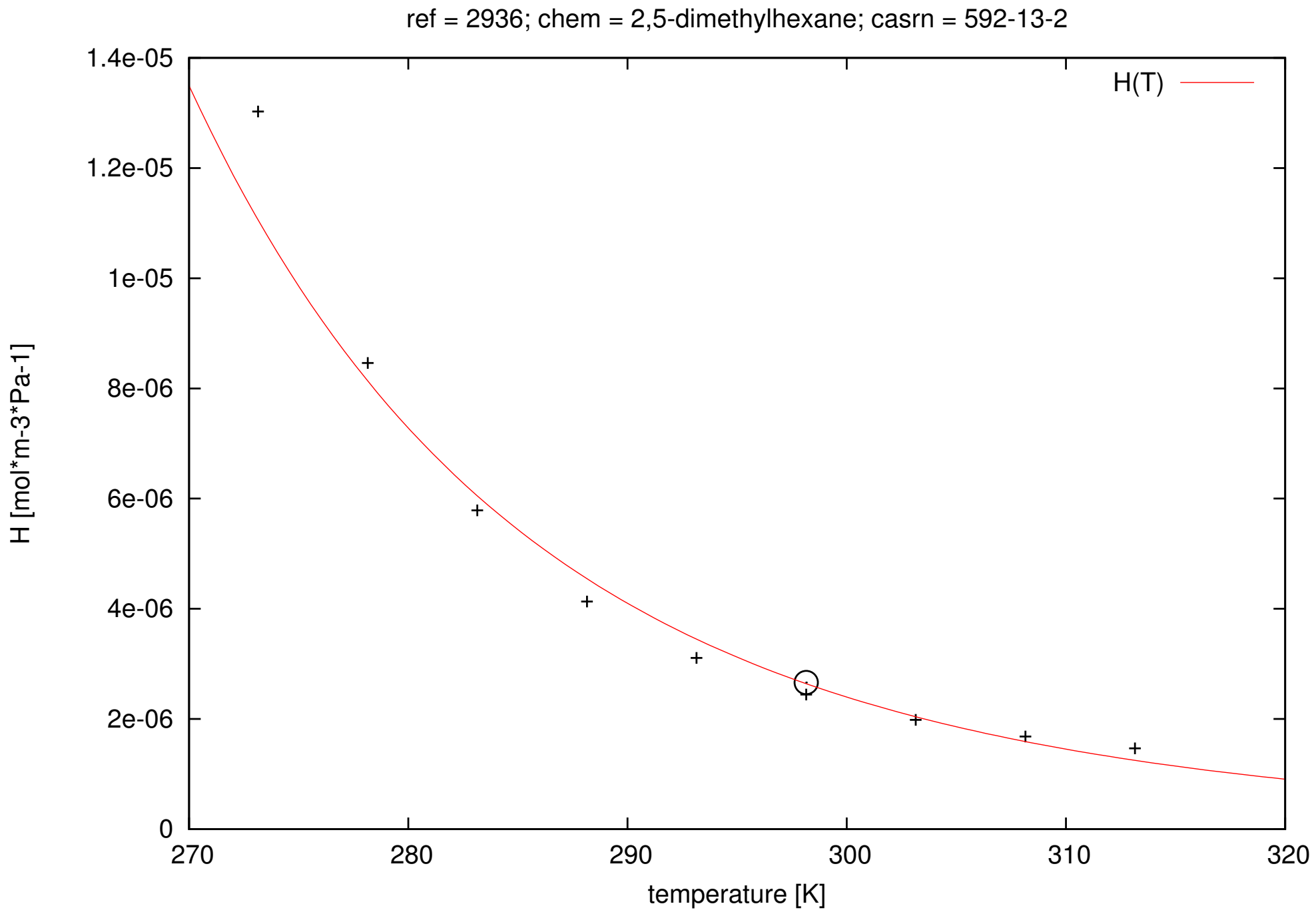

ref = 2931; chem = trichloroethene; casrn = 79-01-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
290
295
300
305
310
315
320
325
330

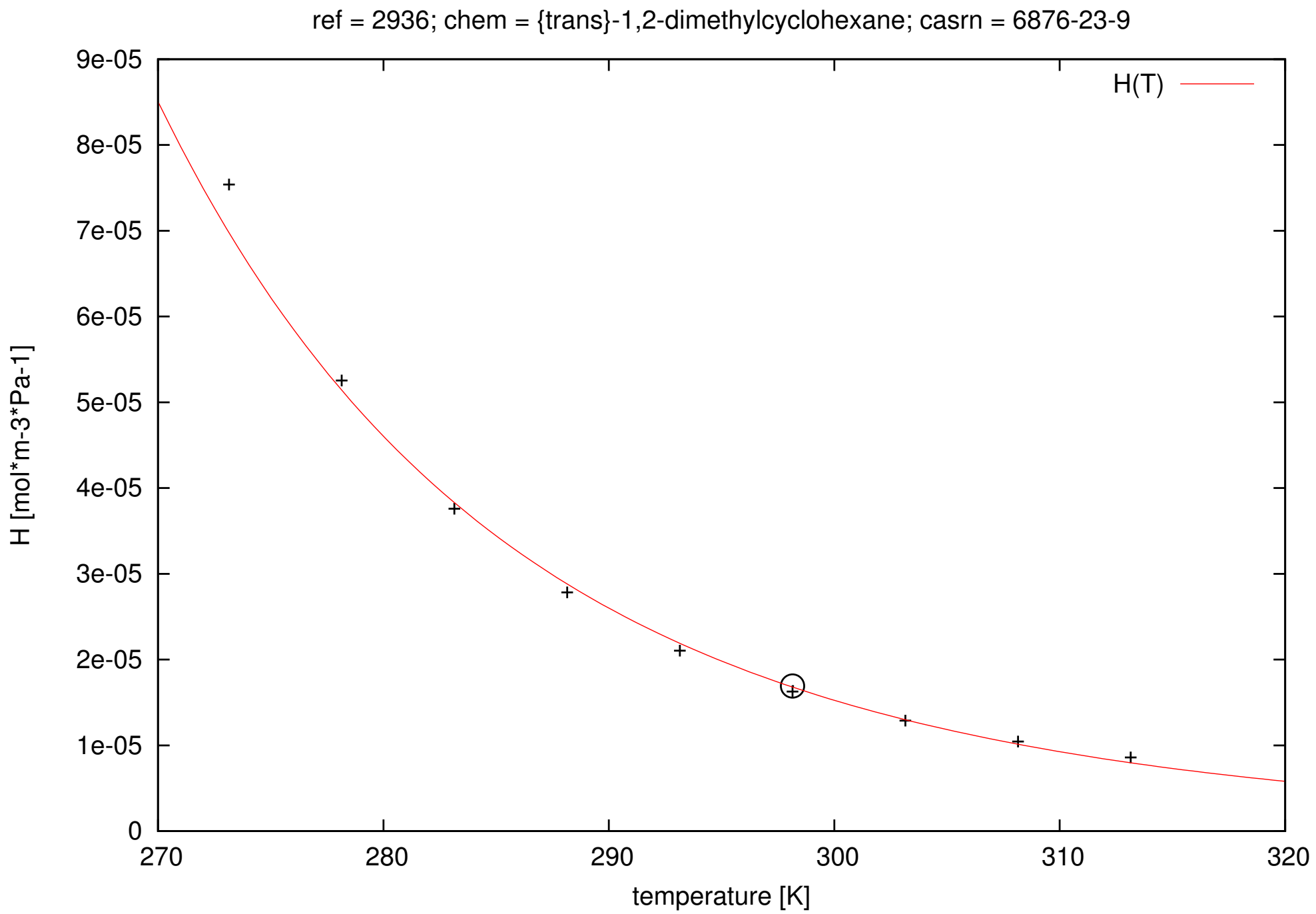

ref = 2936; chem = ethylcyclohexane; casrn = 1678-91-7
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.00012
0.0001
8e-05
6e-05
4e-05
2e-05
0
270
280
290
300
310
320

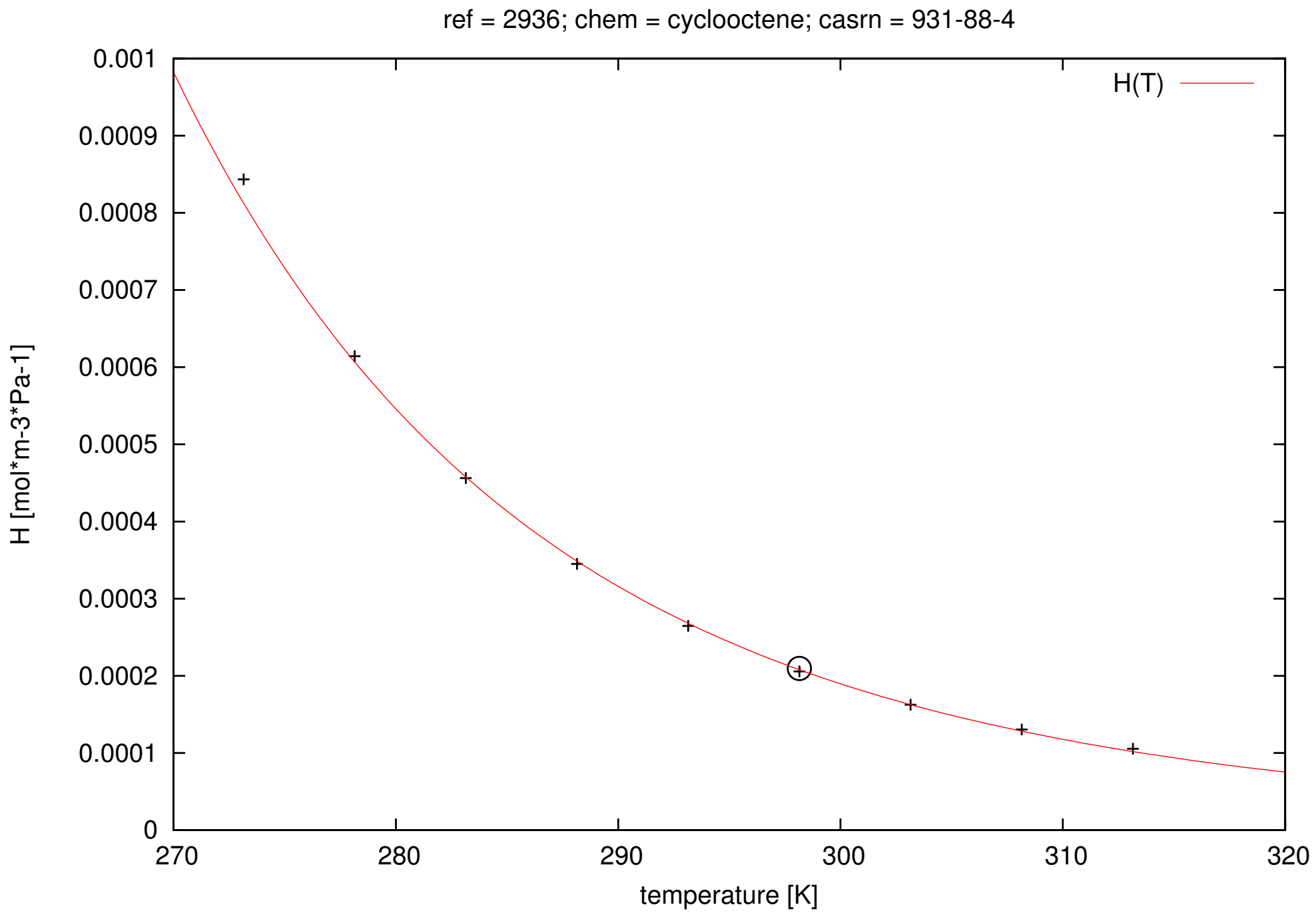

ref = 2936; chem = {cis}-1,2-dimethylcyclohexane; casrn = 2207-01-4
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.00016
0.00014
0.00012
0.0001
8e-05
6e-05
4e-05
2e-05
0
270
280
290
300
310
320

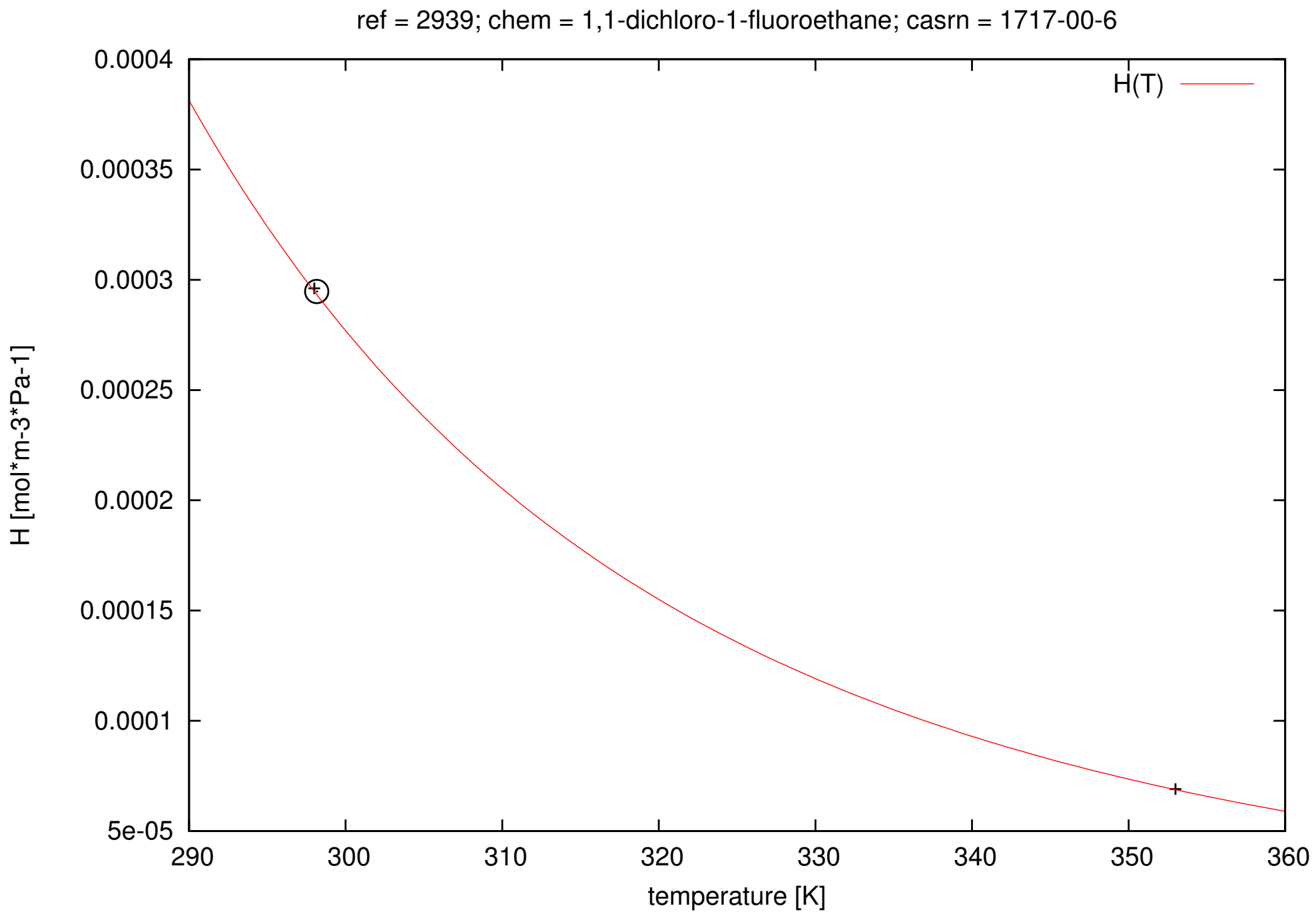

ref = 2936; chem = cyclooctane; casrn = 292-64-8
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.00045
0.0004
0.00035
0.0003
0.00025
0.0002
0.00015
0.0001
5e-05
0
270
280
290
300
310
320

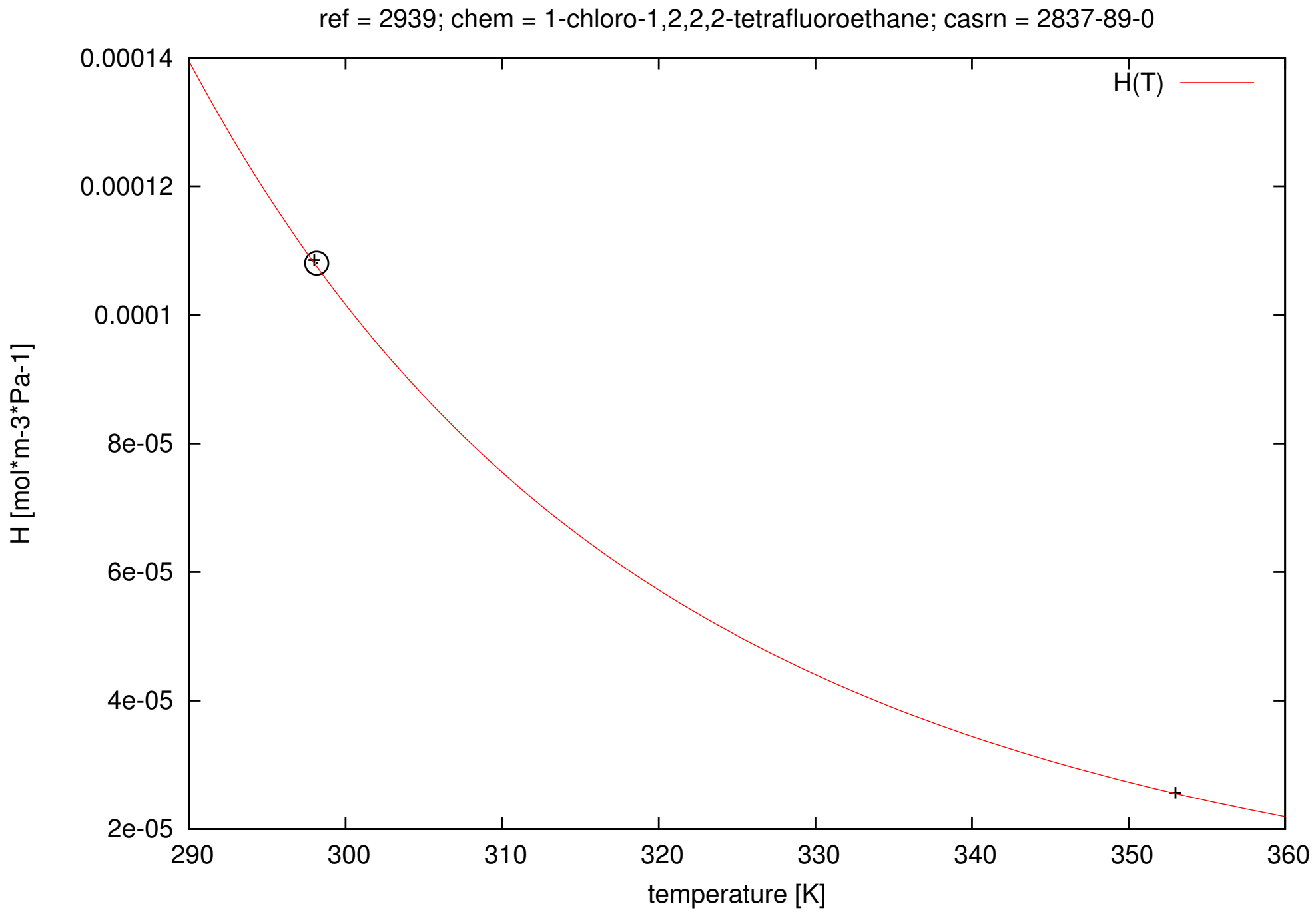

ref = 2936; chem = 2,2-dimethylhexane; casrn = 590-73-8
H(T)
H [mol*m-3*Pa-1]
temperature [K]
1.6e-05
1.4e-05
1.2e-05
1e-05
8e-06
6e-06
4e-06
2e-06
0
270
280
290
300
310
320

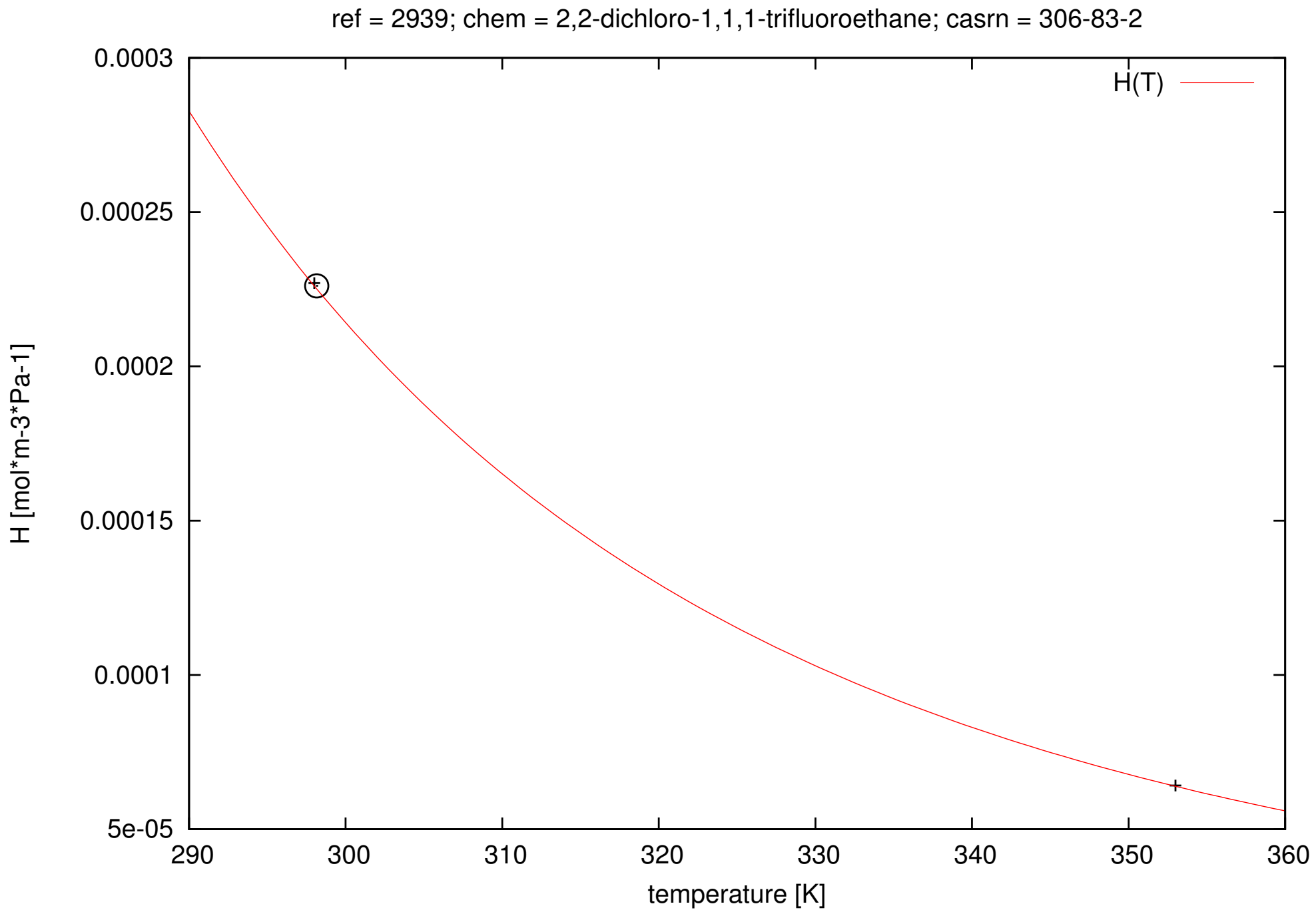

ref = 2936; chem = 2,5-dimethylhexane; casrn = 592-13-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
1.4e-05
1.2e-05
1e-05
8e-06
6e-06
4e-06
2e-06
0
270
280
290
300
310
320

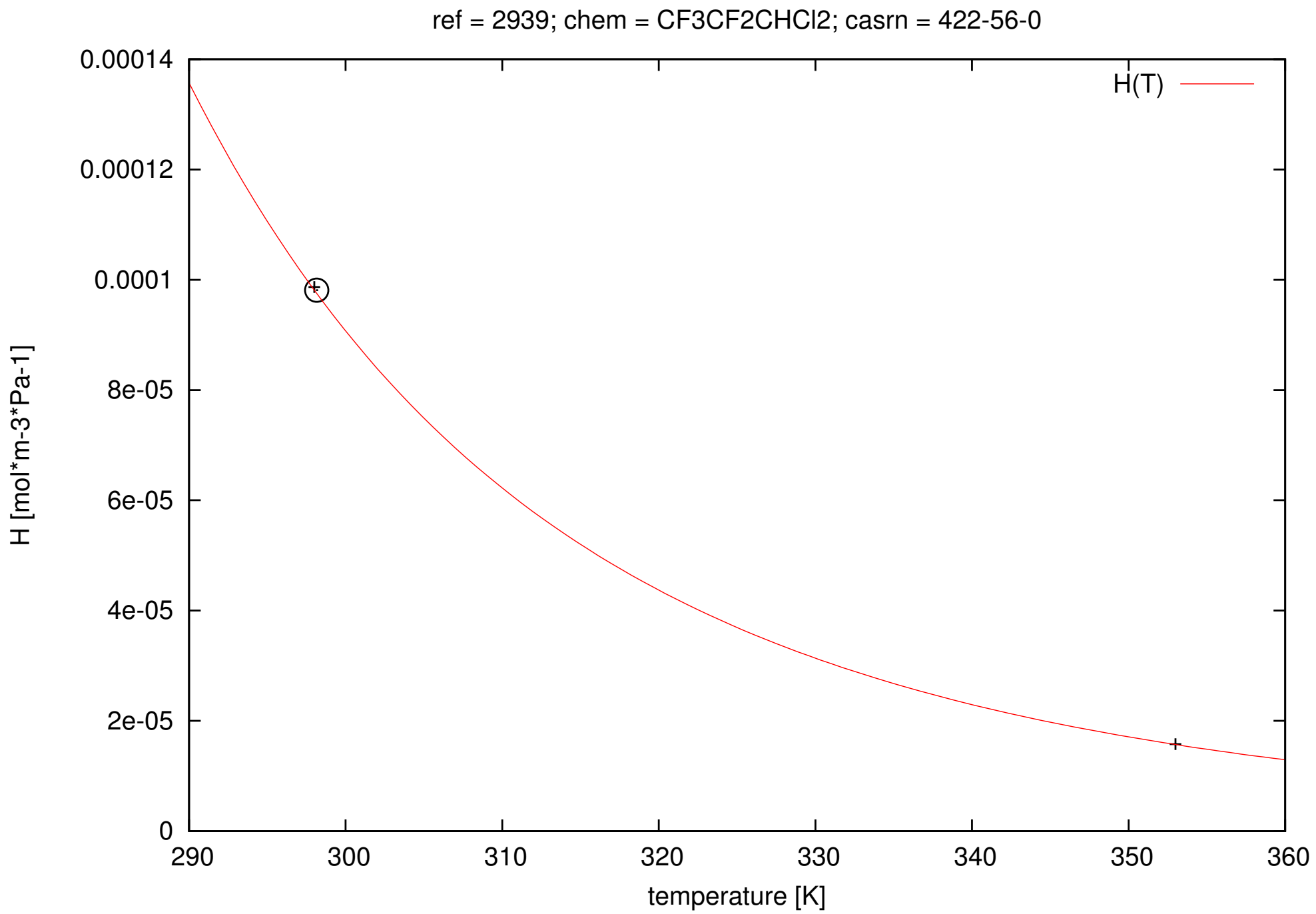

ref = 2936; chem = {trans}-1,2-dimethylcyclohexane; casrn = 6876-23-9
H(T)
H [mol*m-3*Pa-1]
temperature [K]
9e-05
8e-05
7e-05
6e-05
5e-05
4e-05
3e-05
2e-05
1e-05
0
270
280
290
300
310
320

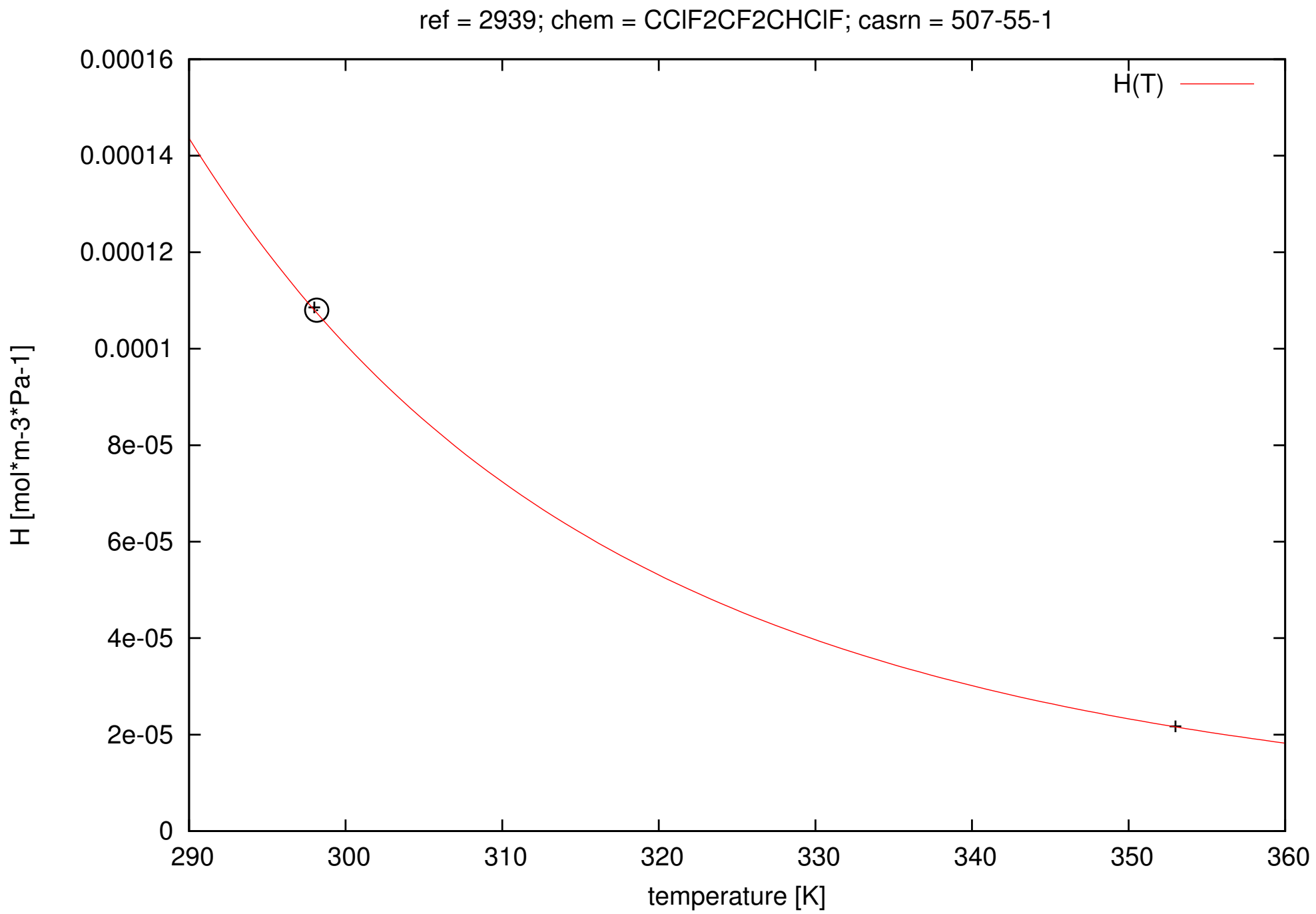

ref = 2936; chem = cyclooctene; casrn = 931-88-4
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.001
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0
270
280
290
300
310
320

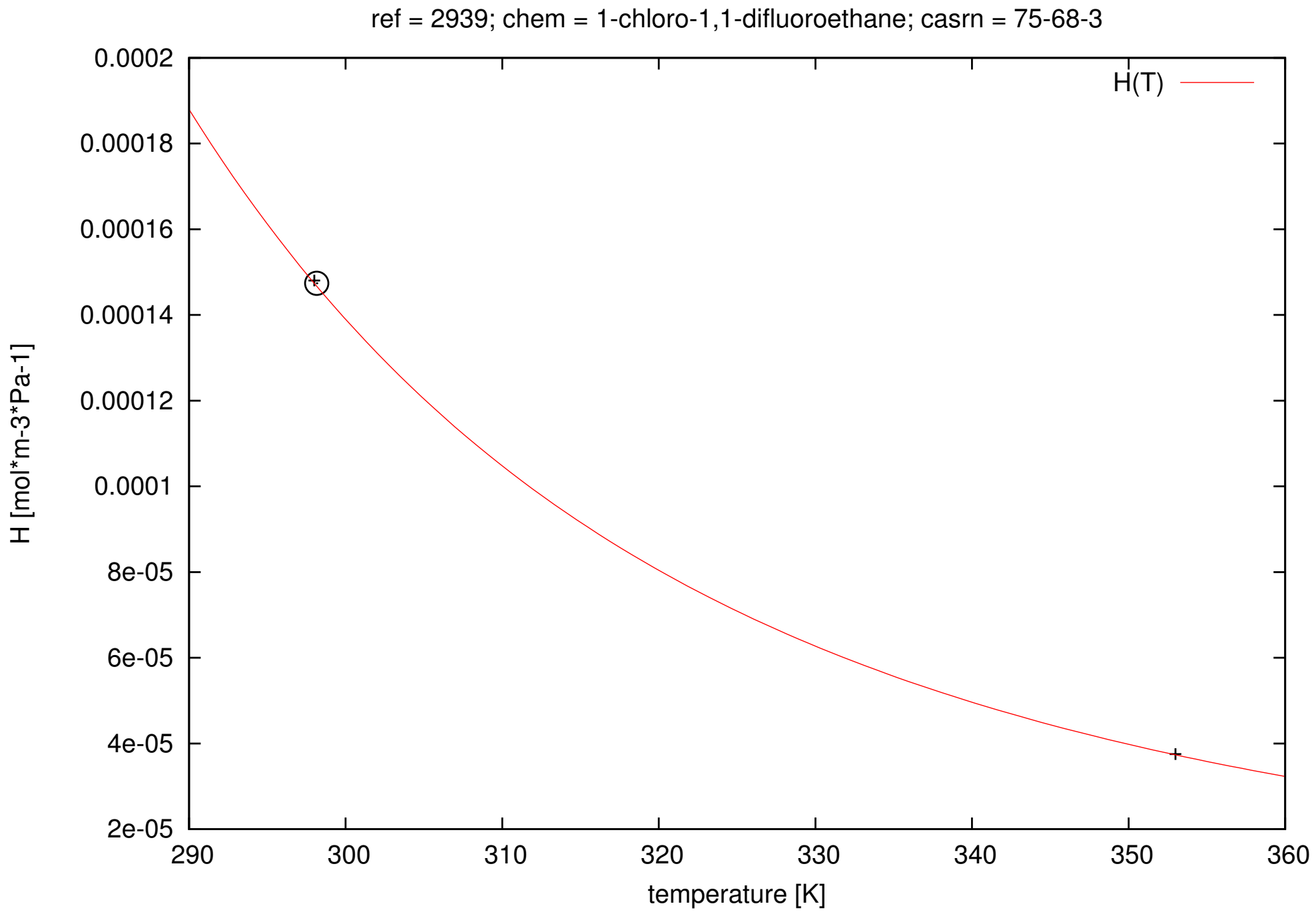

ref = 2939; chem = 1,1-dichloro-1-fluoroethane; casrn = 1717-00-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0004
0.00035
0.0003
0.00025
0.0002
0.00015
0.0001
5e-05
290
300
310
320
330
340
350
360

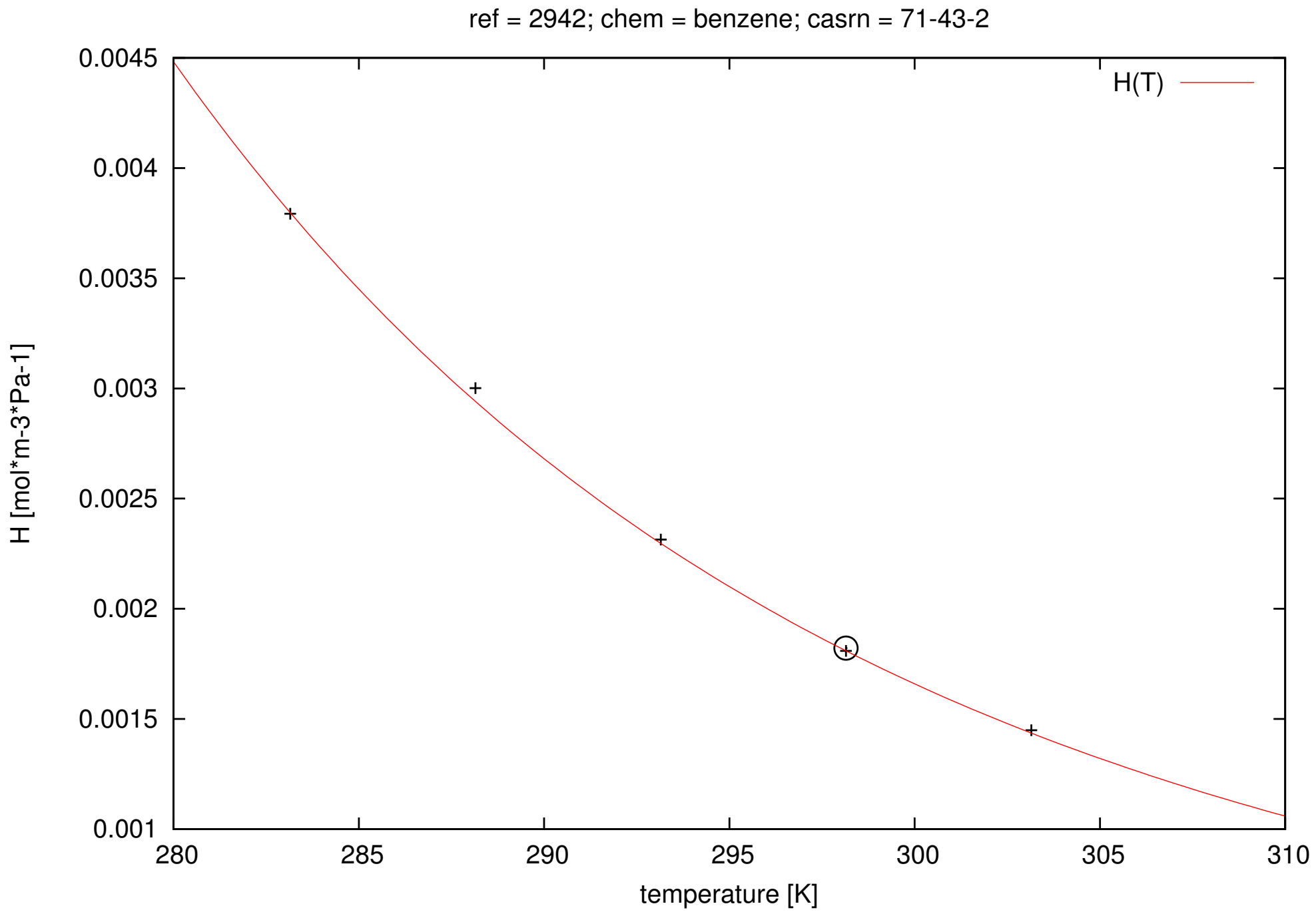

ref = 2939; chem = 1-chloro-1,2,2,2-tetrafluoroethane; casrn = 2837-89-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.00014
0.00012
0.0001
8e-05
6e-05
4e-05
2e-05
290
300
310
320
330
340
350
360

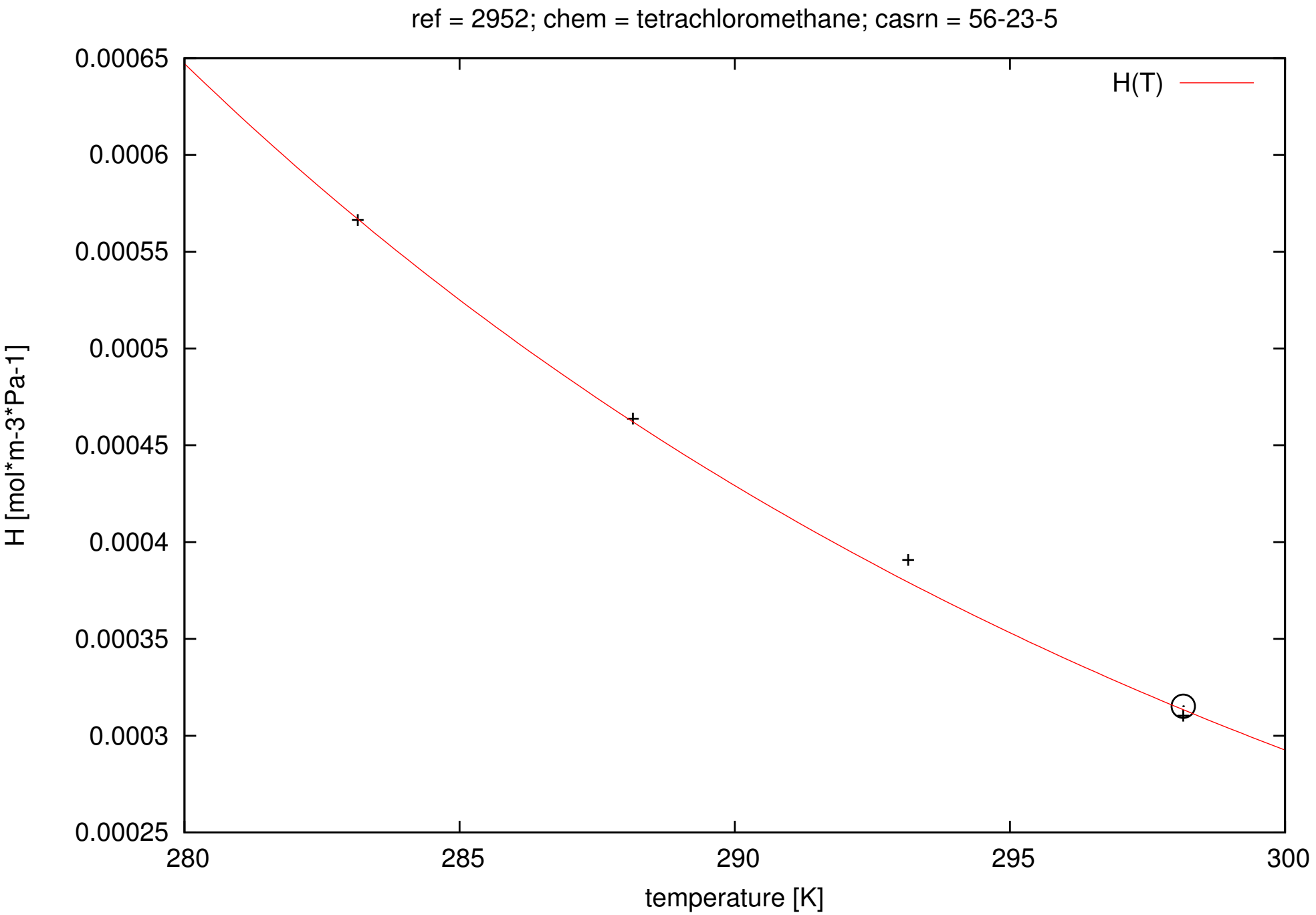

ref = 2939; chem = 2,2-dichloro-1,1,1-trifluoroethane; casrn = 306-83-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0003
0.00025
0.0002
0.00015
0.0001
5e-05
290
300
310
320
330
340
350
360

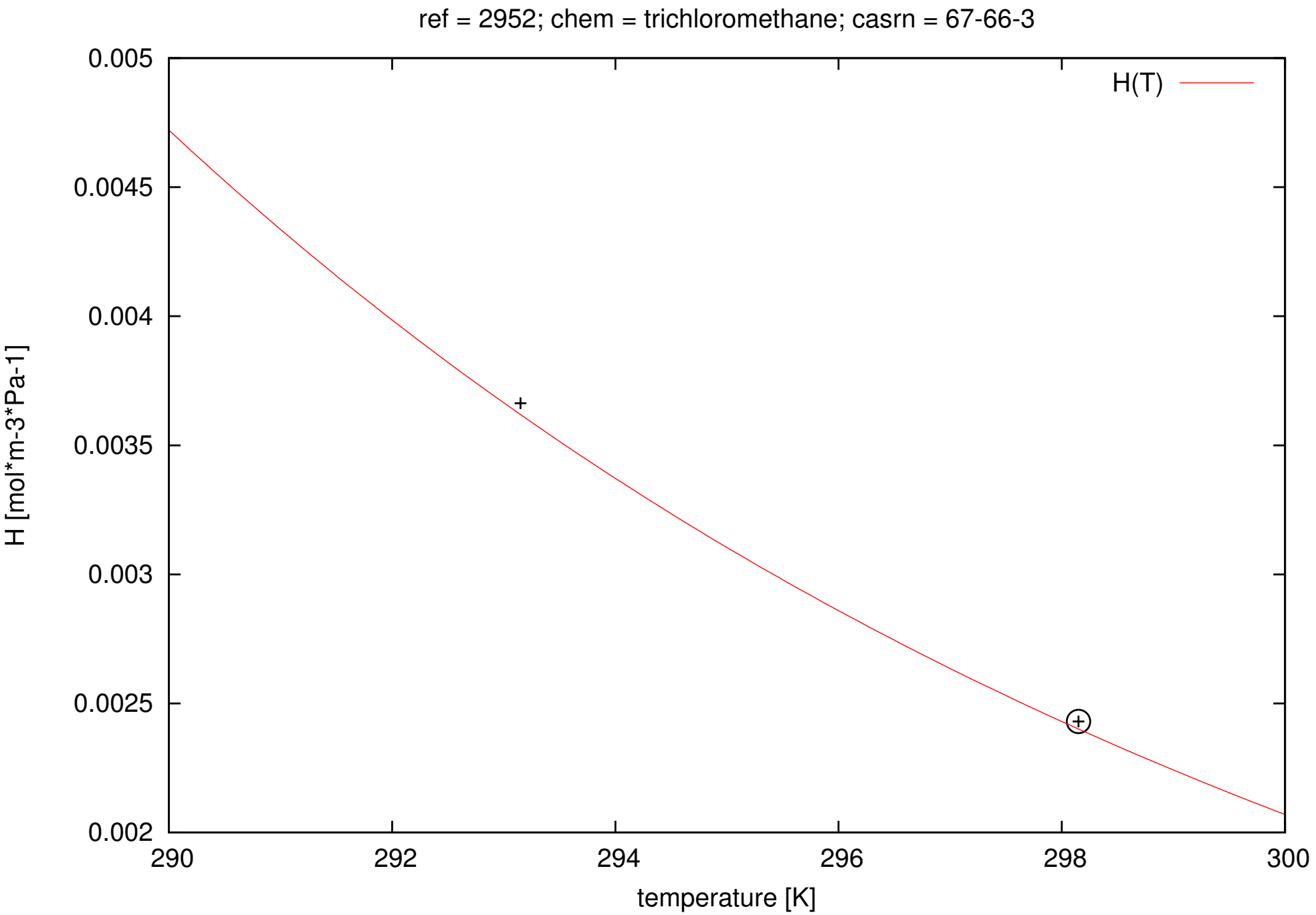

ref = 2939; chem = CF3CF2CHCl2; casrn = 422-56-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.00014
0.00012
0.0001
8e-05
6e-05
4e-05
2e-05
0
290
300
310
320
330
340
350
360

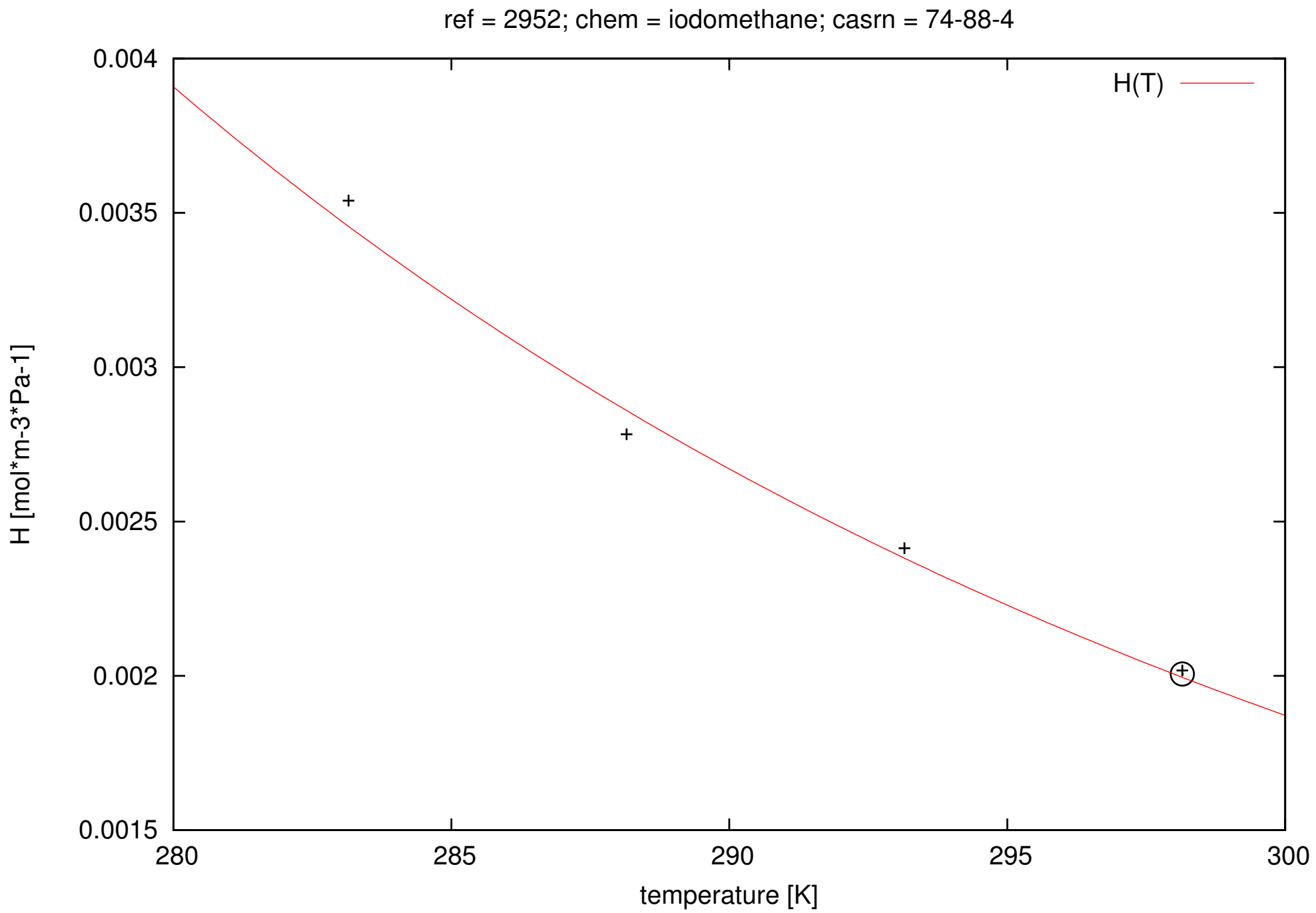

ref = 2939; chem = CClF2CF2CHClF; casrn = 507-55-1
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.00016
0.00014
0.00012
0.0001
8e-05
6e-05
4e-05
2e-05
0
290
300
310
320
330
340
350
360

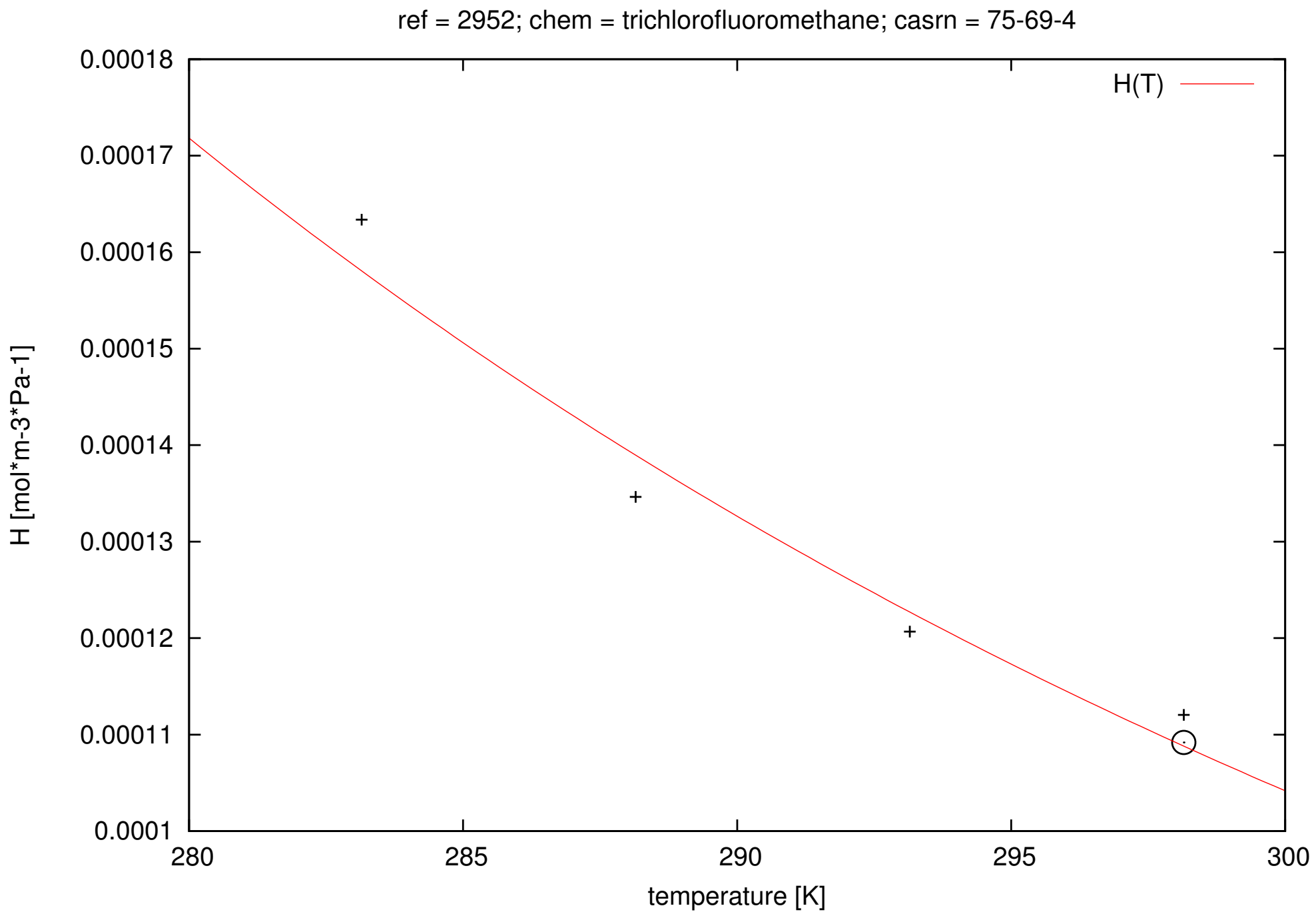

ref = 2939; chem = 1-chloro-1,1-difluoroethane; casrn = 75-68-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0002
0.00018
0.00016
0.00014
0.00012
0.0001
8e-05
6e-05
4e-05
2e-05
290
300
310
320
330
340
350
360

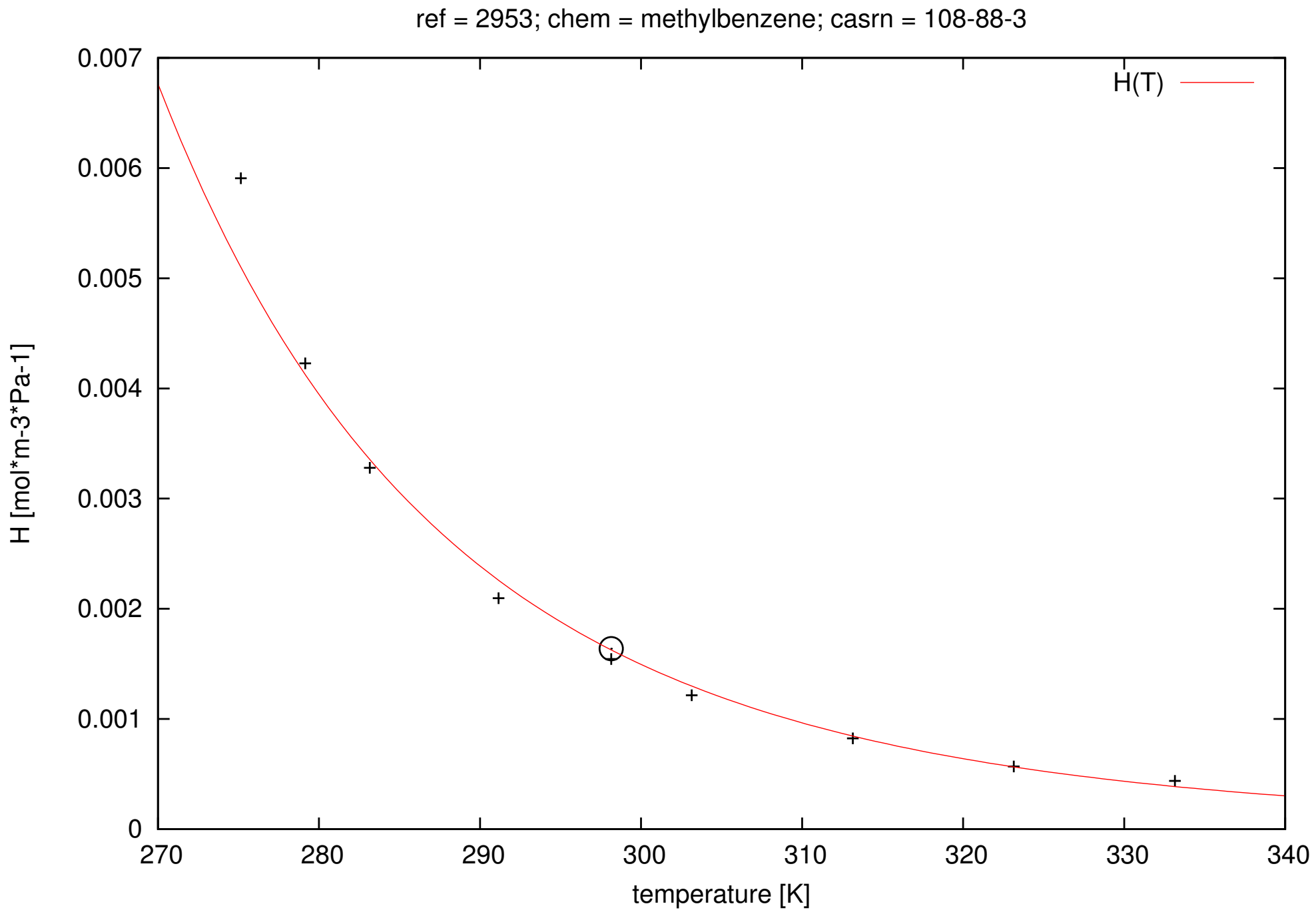

ref = 2942; chem = benzene; casrn = 71-43-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
280
285
290
295
300
305
310

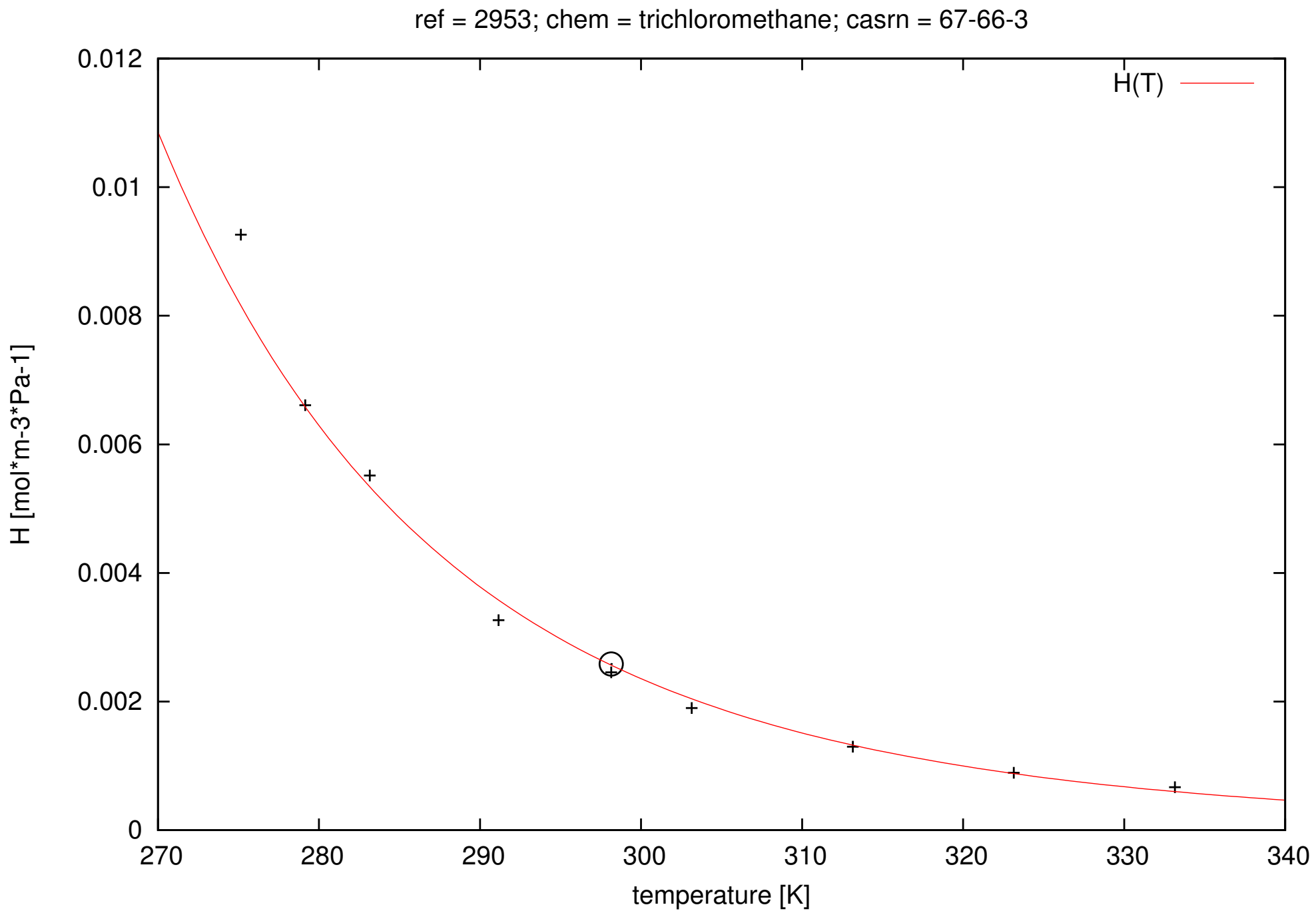

ref = 2952; chem = tetrachloromethane; casrn = 56-23-5
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.00065
0.0006
0.00055
0.0005
0.00045
0.0004
0.00035
0.0003
0.00025
280
285
290
295
300

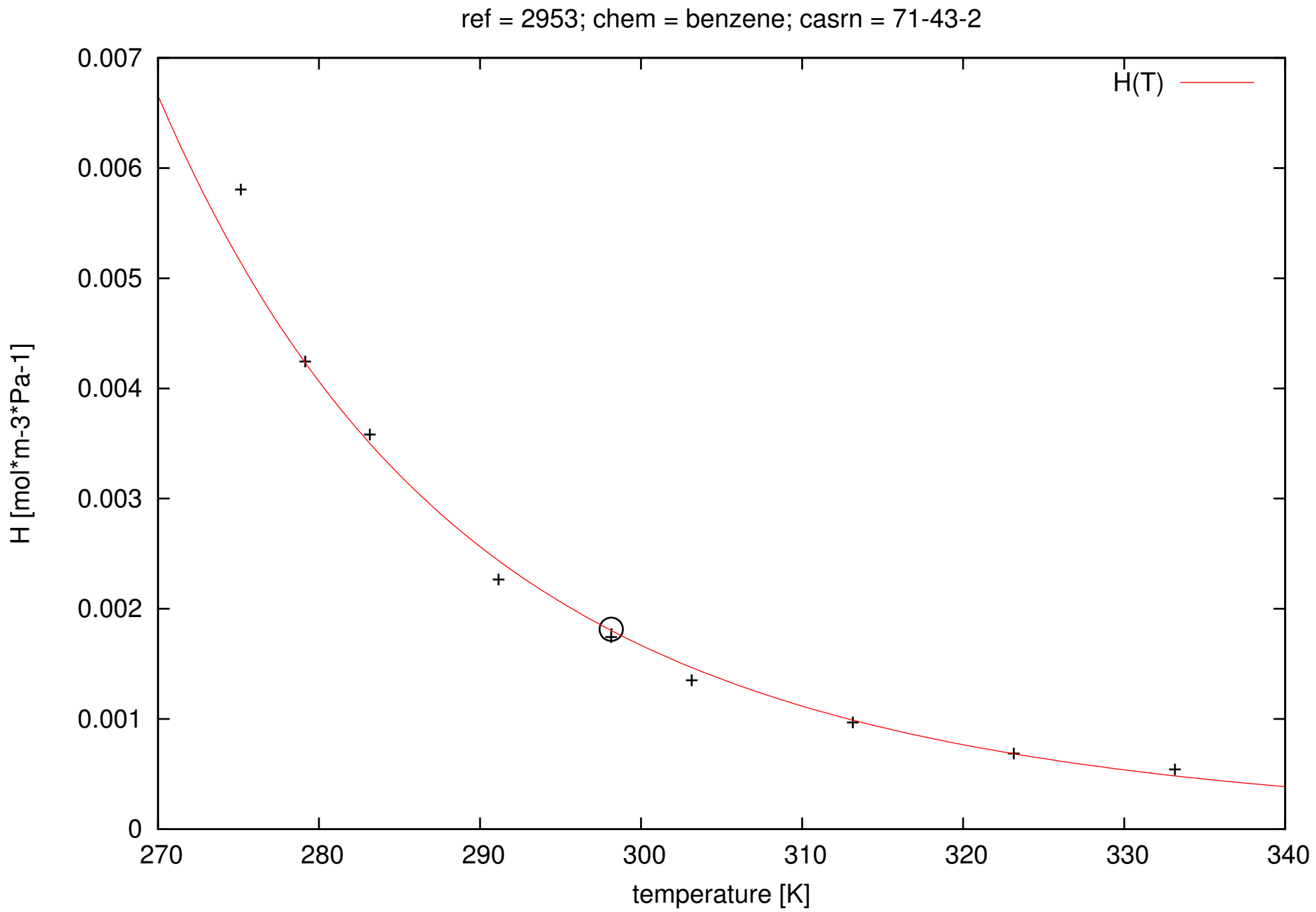

ref = 2952; chem = trichloromethane; casrn = 67-66-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
290
292
294
296
298
300

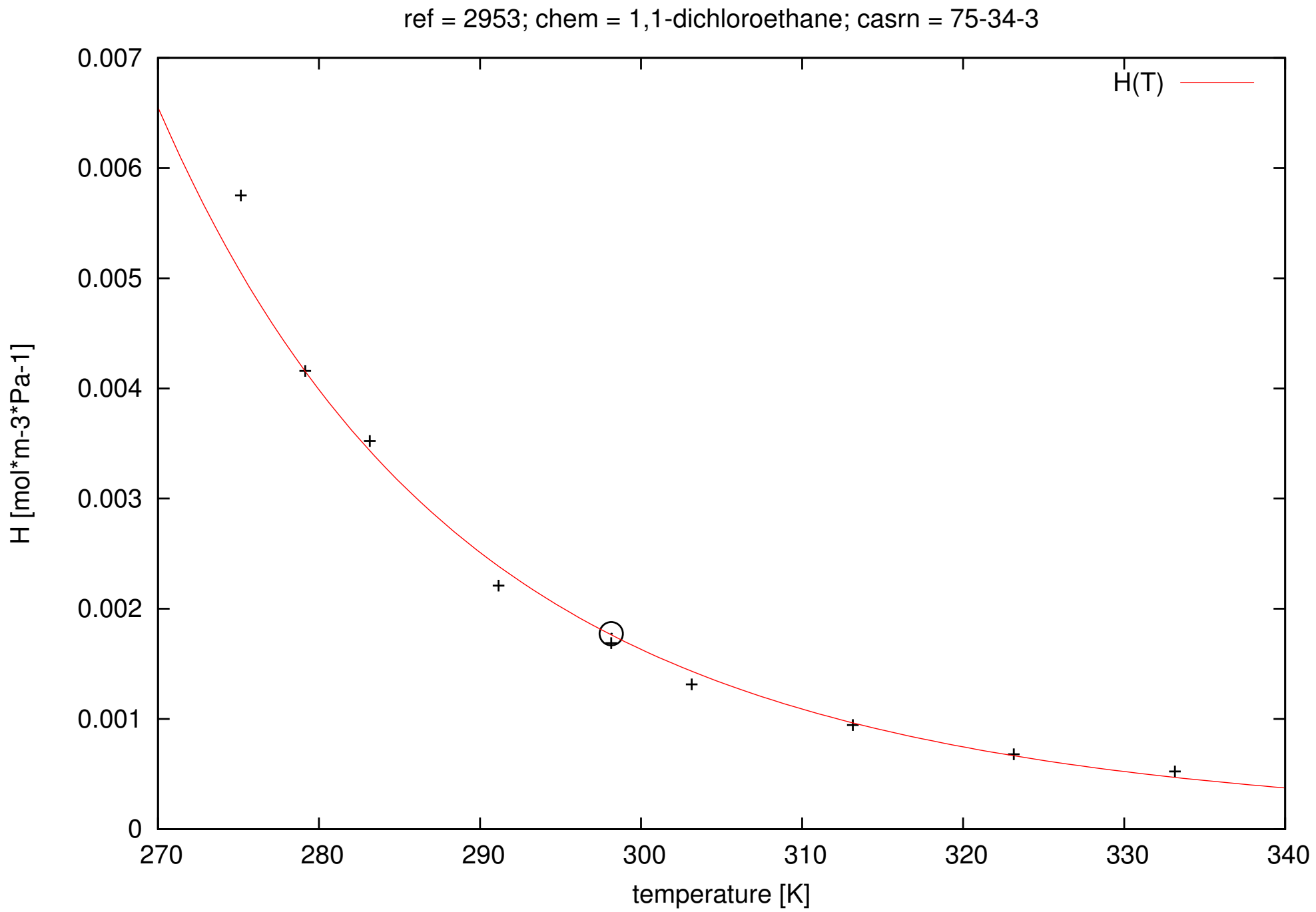

ref = 2952; chem = iodomethane; casrn = 74-88-4
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.004
0.0035
0.003
0.0025
0.002
0.0015
280
285
290
295
300

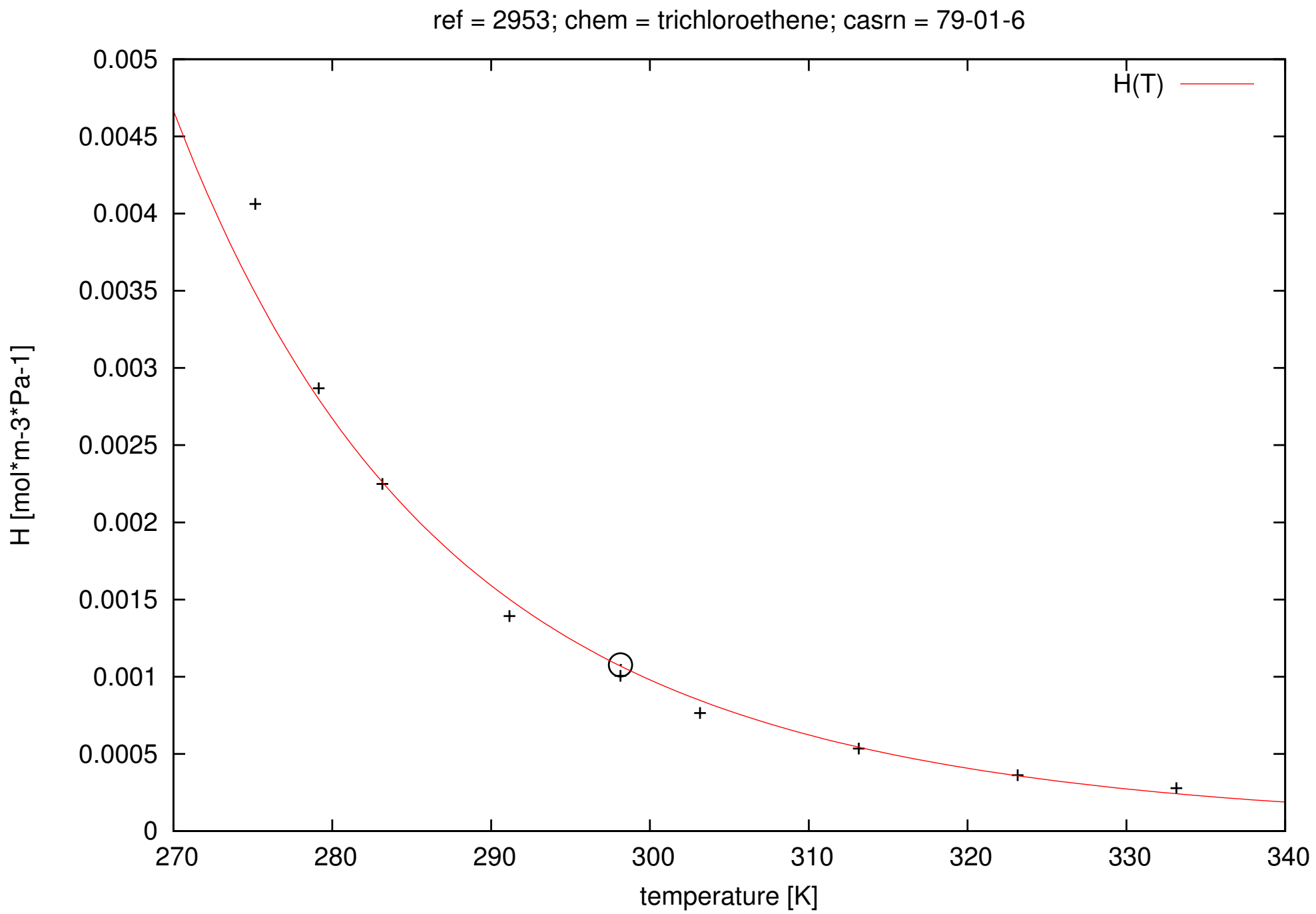

ref = 2952; chem = trichlorofluoromethane; casrn = 75-69-4
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.00018
0.00017
0.00016
0.00015
0.00014
0.00013
0.00012
0.00011
0.0001
280
285
290
295
300

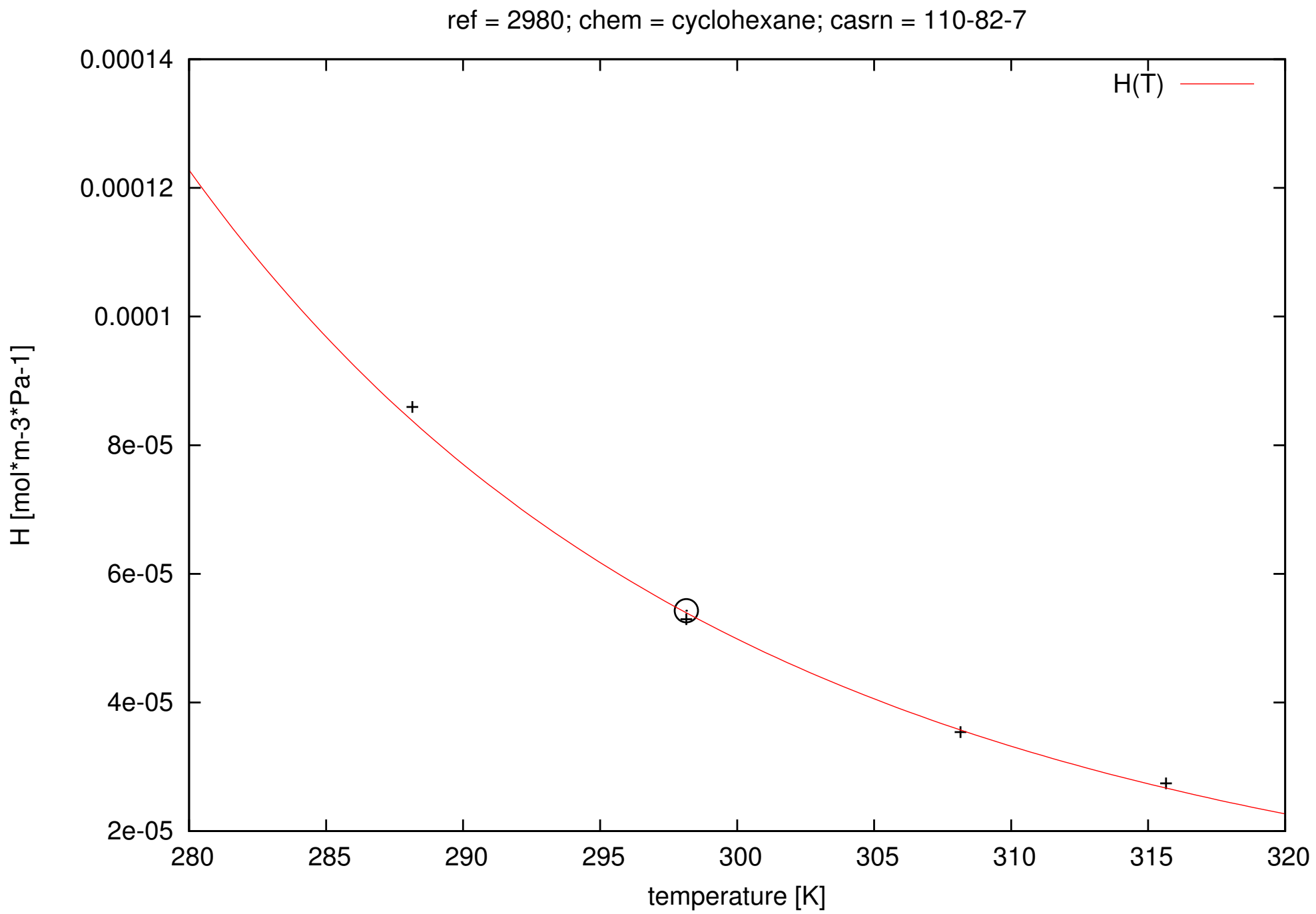

ref = 2953; chem = methylbenzene; casrn = 108-88-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0
270
280
290
300
310
320
330
340

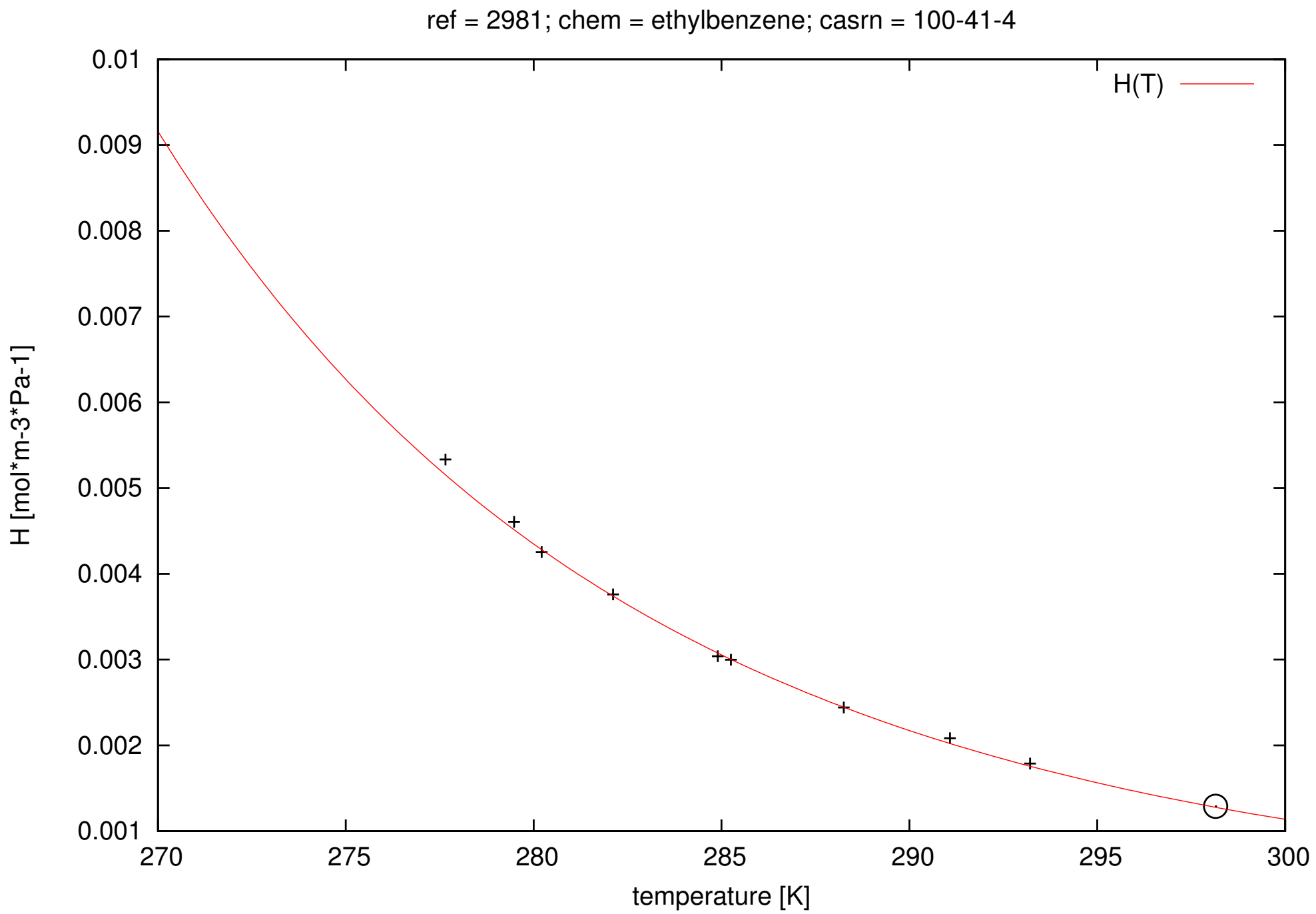

ref = 2953; chem = trichloromethane; casrn = 67-66-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.012
0.01
0.008
0.006
0.004
0.002
0
270
280
290
300
310
320
330
340

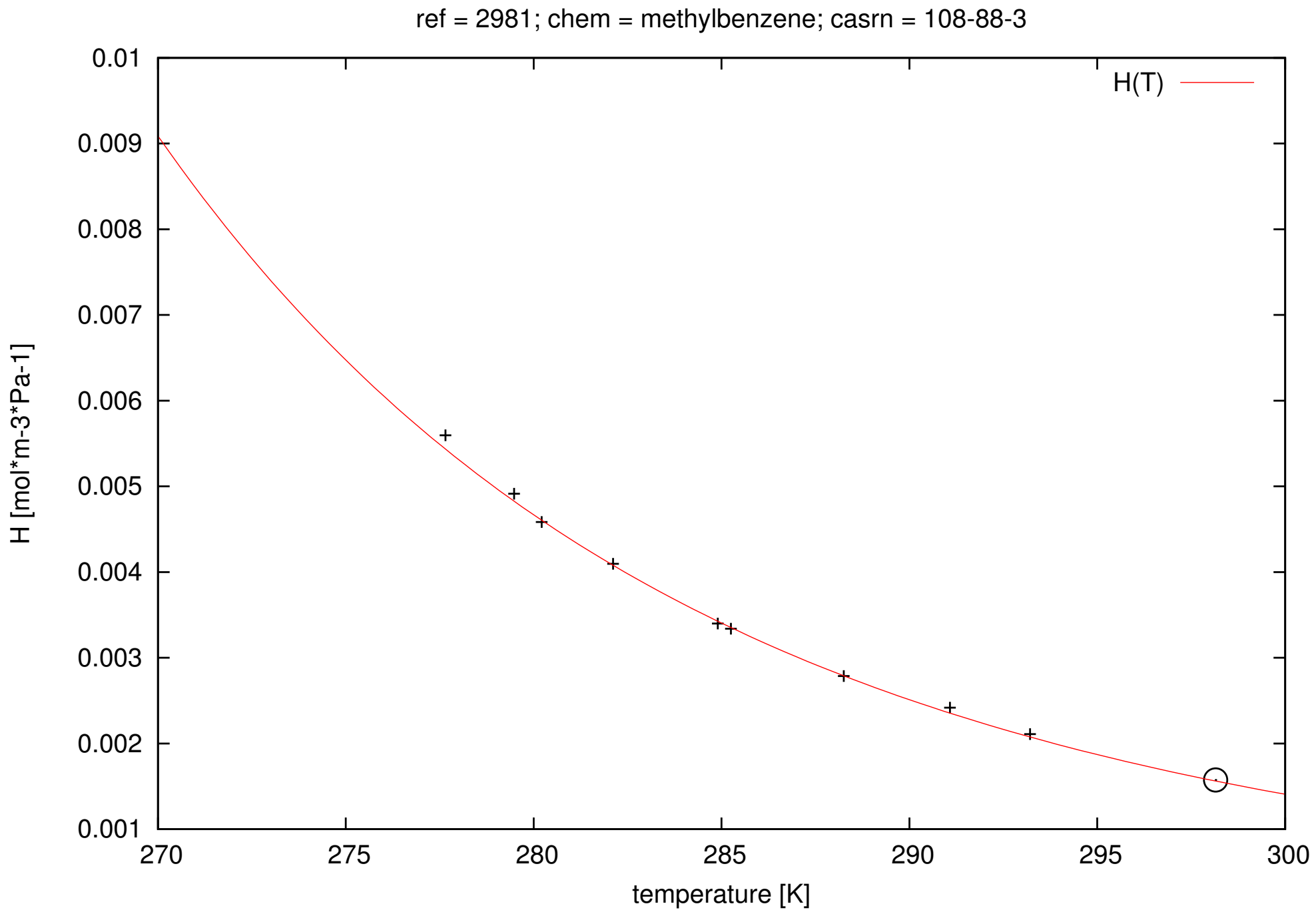

ref = 2953; chem = benzene; casrn = 71-43-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0
270
280
290
300
310
320
330
340

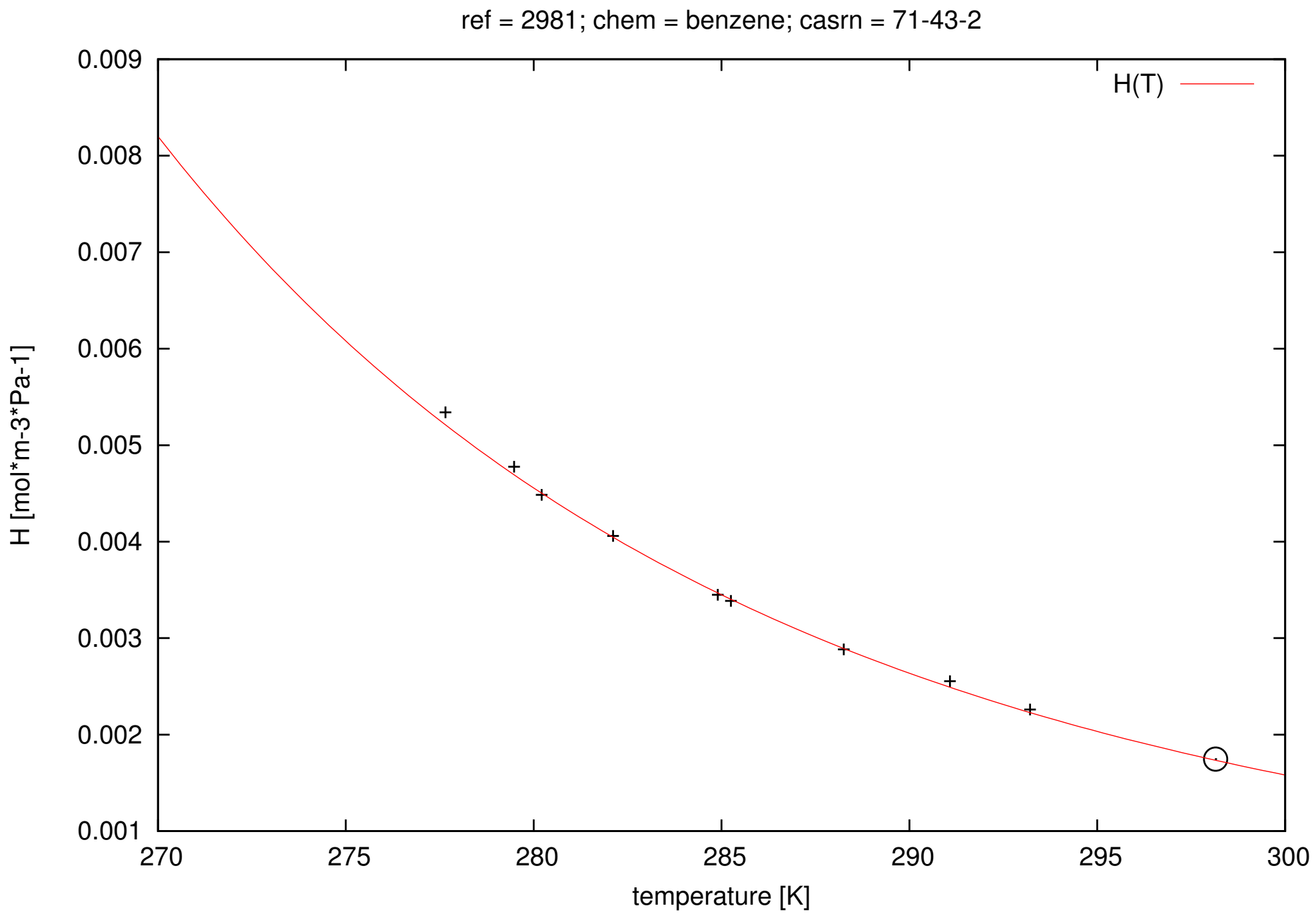

ref = 2953; chem = 1,1-dichloroethane; casrn = 75-34-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0
270
280
290
300
310
320
330
340

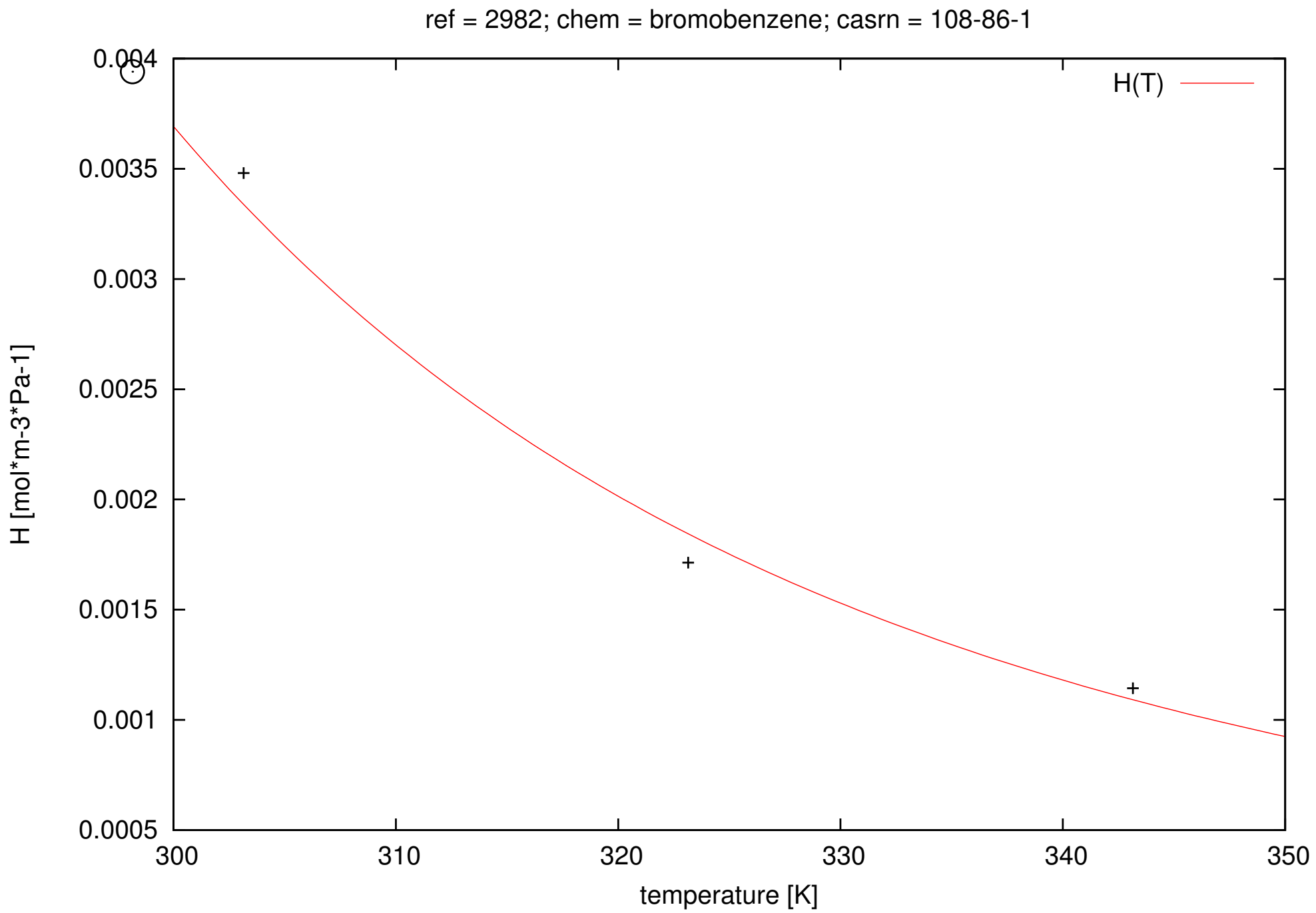

ref = 2953; chem = trichloroethene; casrn = 79-01-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
270
280
290
300
310
320
330
340

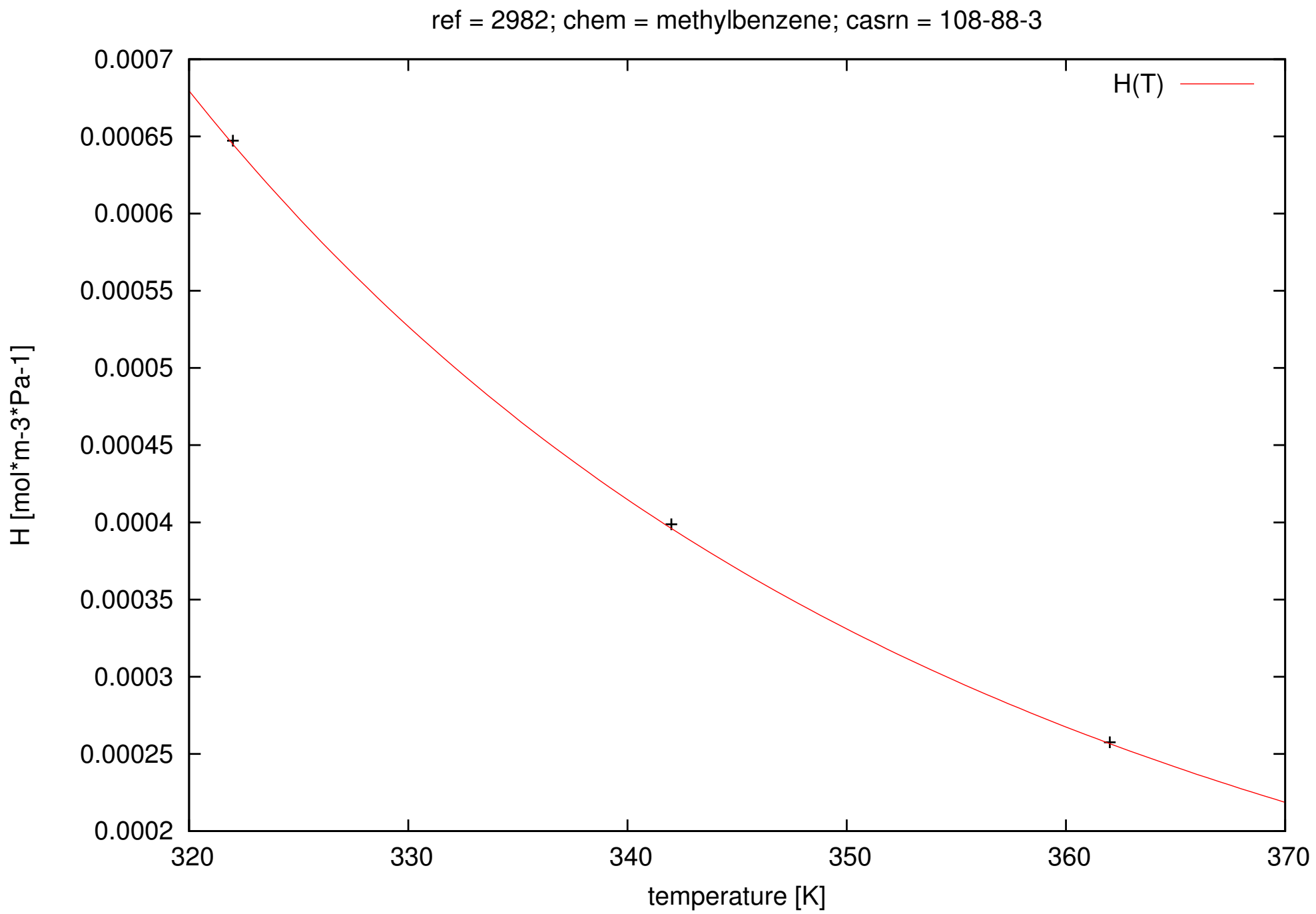

ref = 2980; chem = cyclohexane; casrn = 110-82-7
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.00014
0.00012
0.0001
8e-05
6e-05
4e-05
2e-05
280
285
290
295
300
305
310
315
320

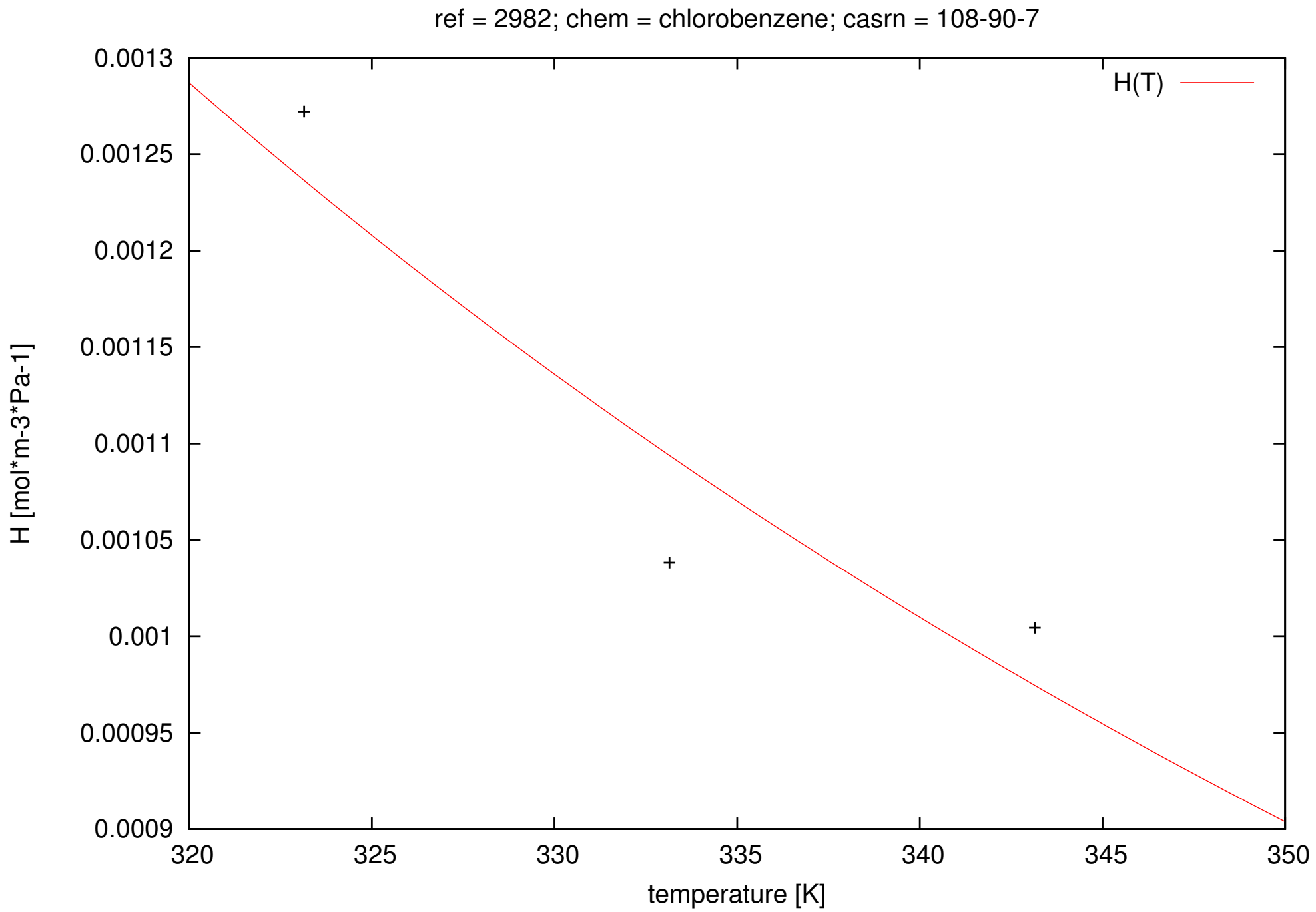

ref = 2981; chem = ethylbenzene; casrn = 100-41-4
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
270
275
280
285
290
295
300

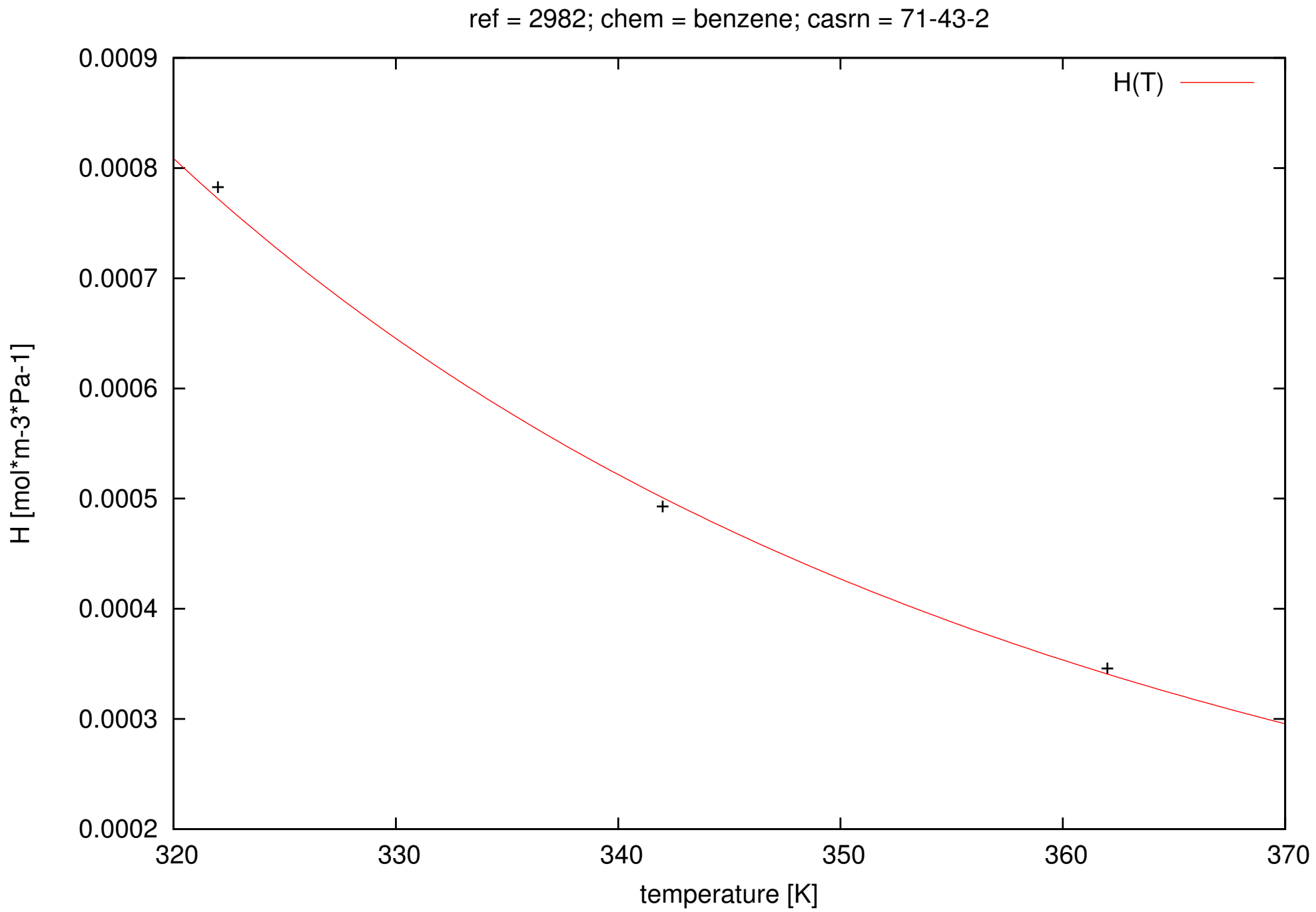

ref = 2981; chem = methylbenzene; casrn = 108-88-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
270
275
280
285
290
295
300

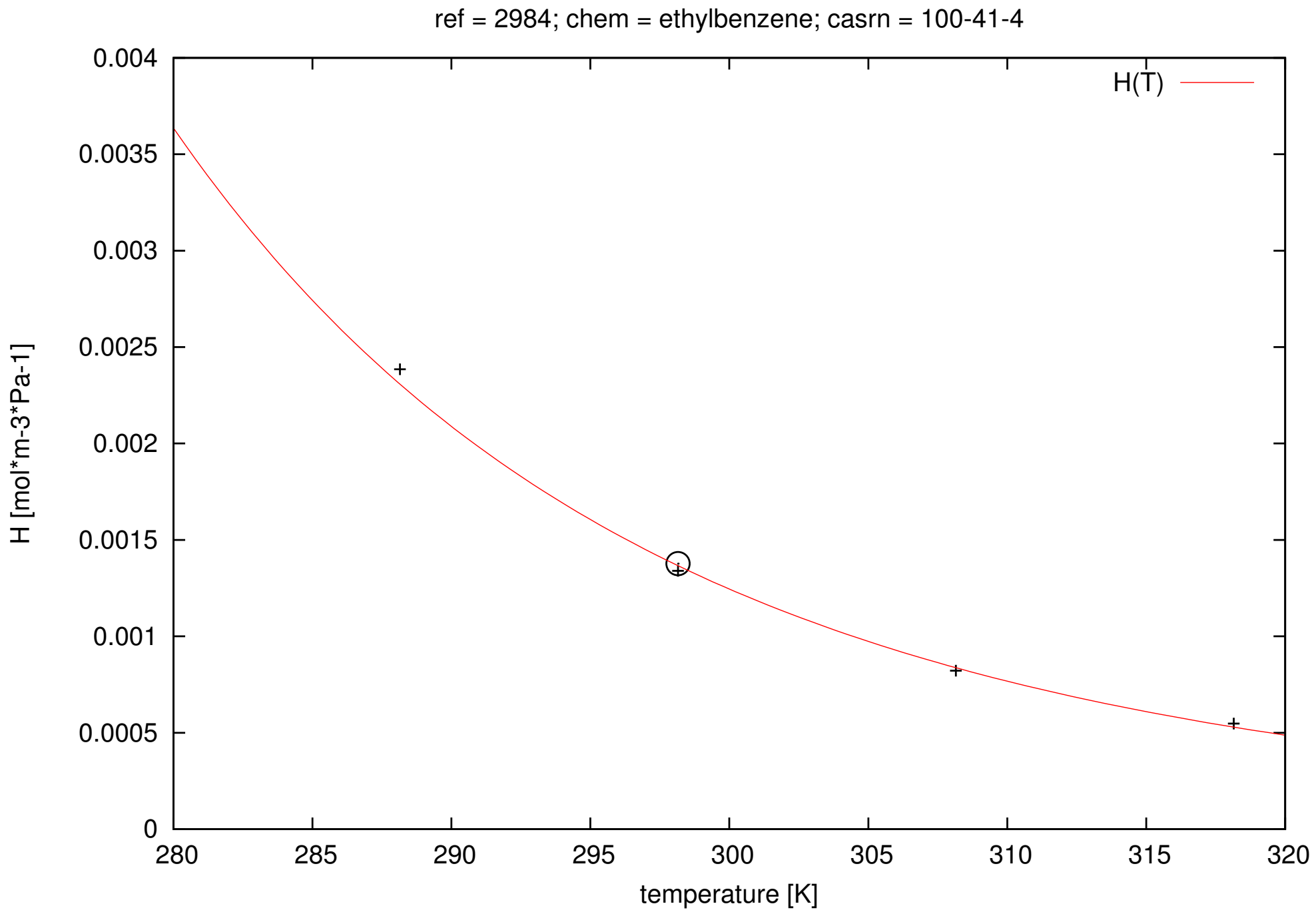

ref = 2981; chem = benzene; casrn = 71-43-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
270
275
280
285
290
295
300

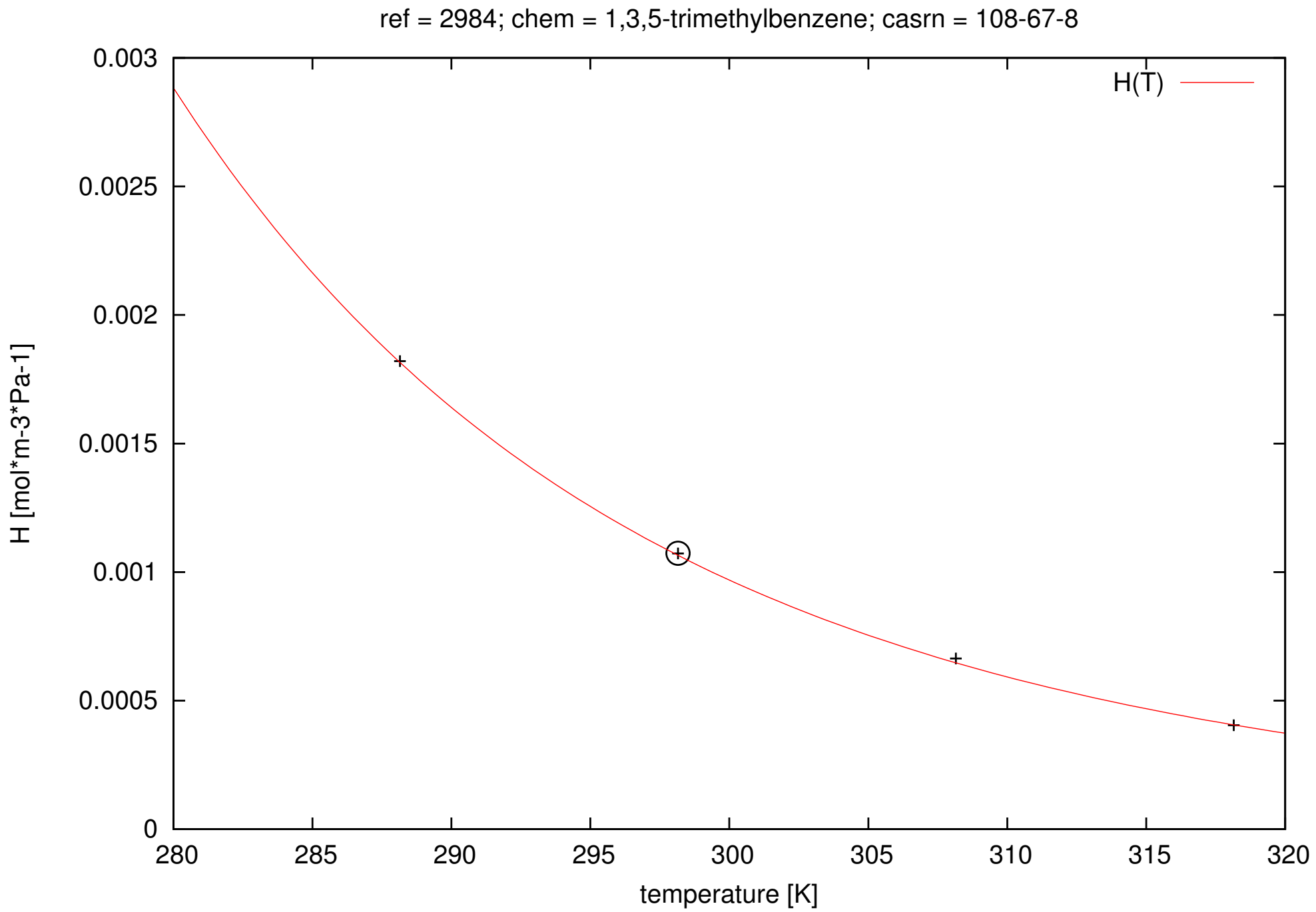

ref = 2982; chem = bromobenzene; casrn = 108-86-1
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
300
310
320
330
340
350

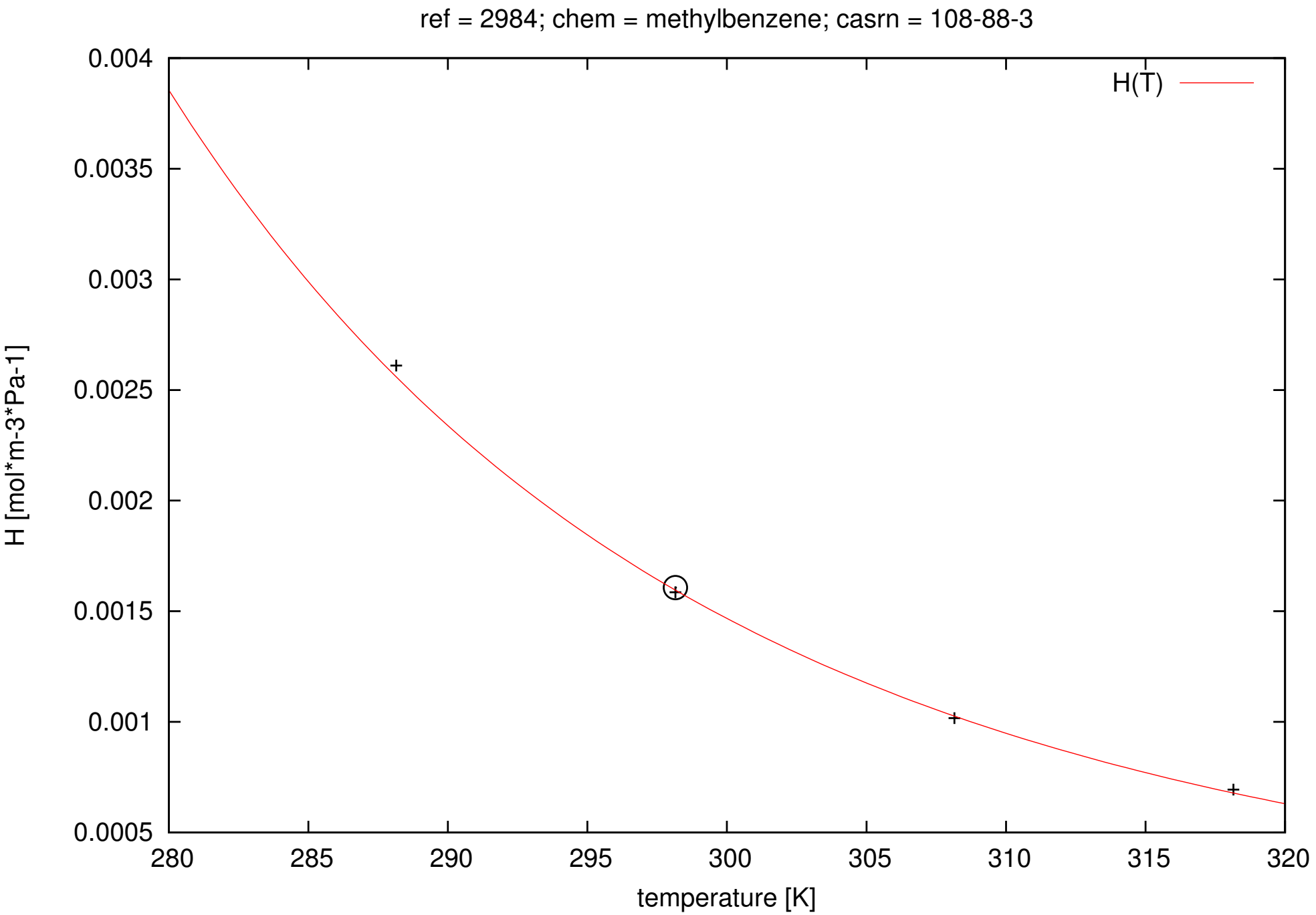

ref = 2982; chem = methylbenzene; casrn = 108-88-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0007
0.00065
0.0006
0.00055
0.0005
0.00045
0.0004
0.00035
0.0003
0.00025
0.0002
320
330
340
350
360
370

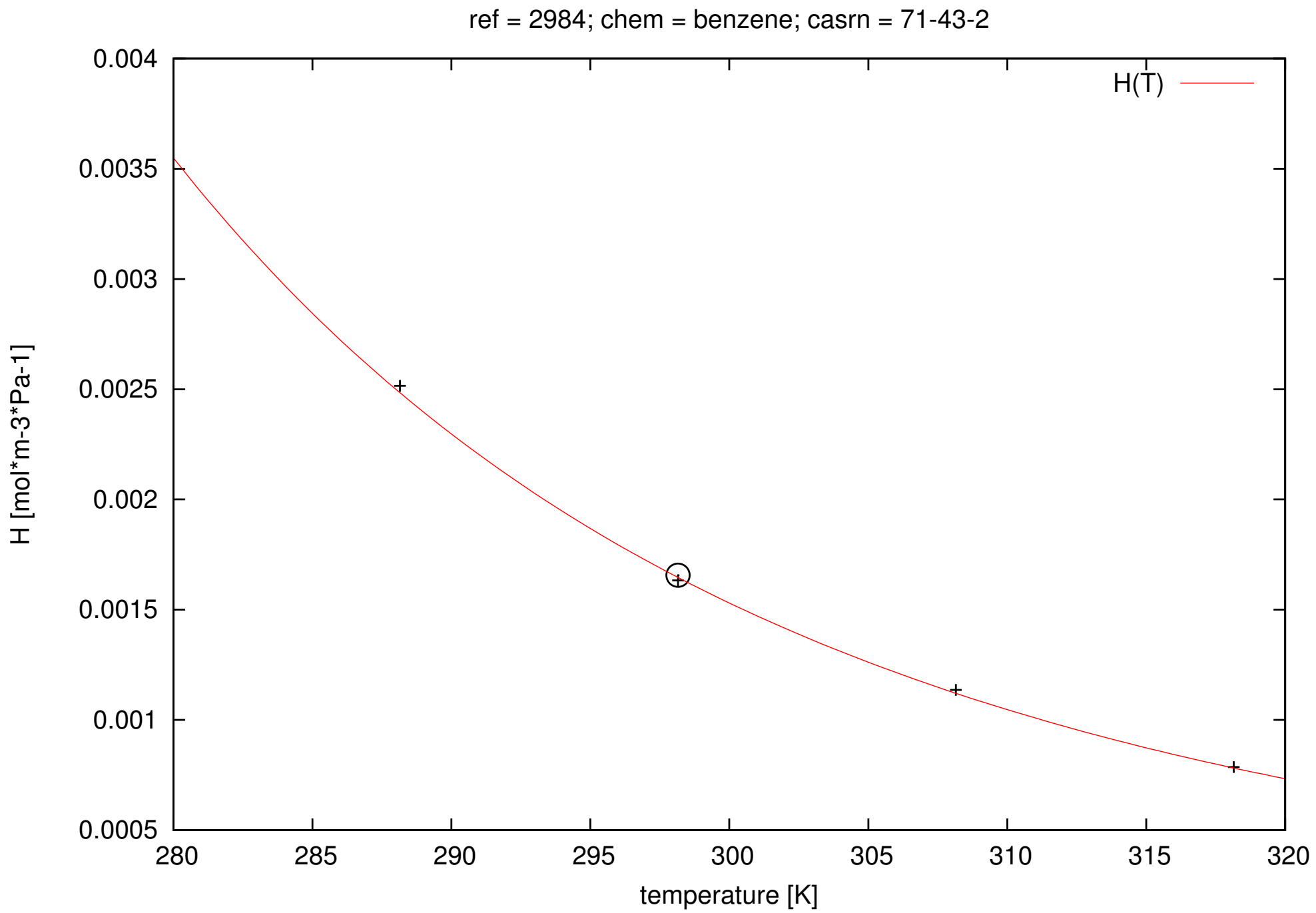

ref = 2982; chem = chlorobenzene; casrn = 108-90-7
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0013
0.00125
0.0012
0.00115
0.0011
0.00105
0.001
0.00095
0.0009
320
325
330
335
340
345
350

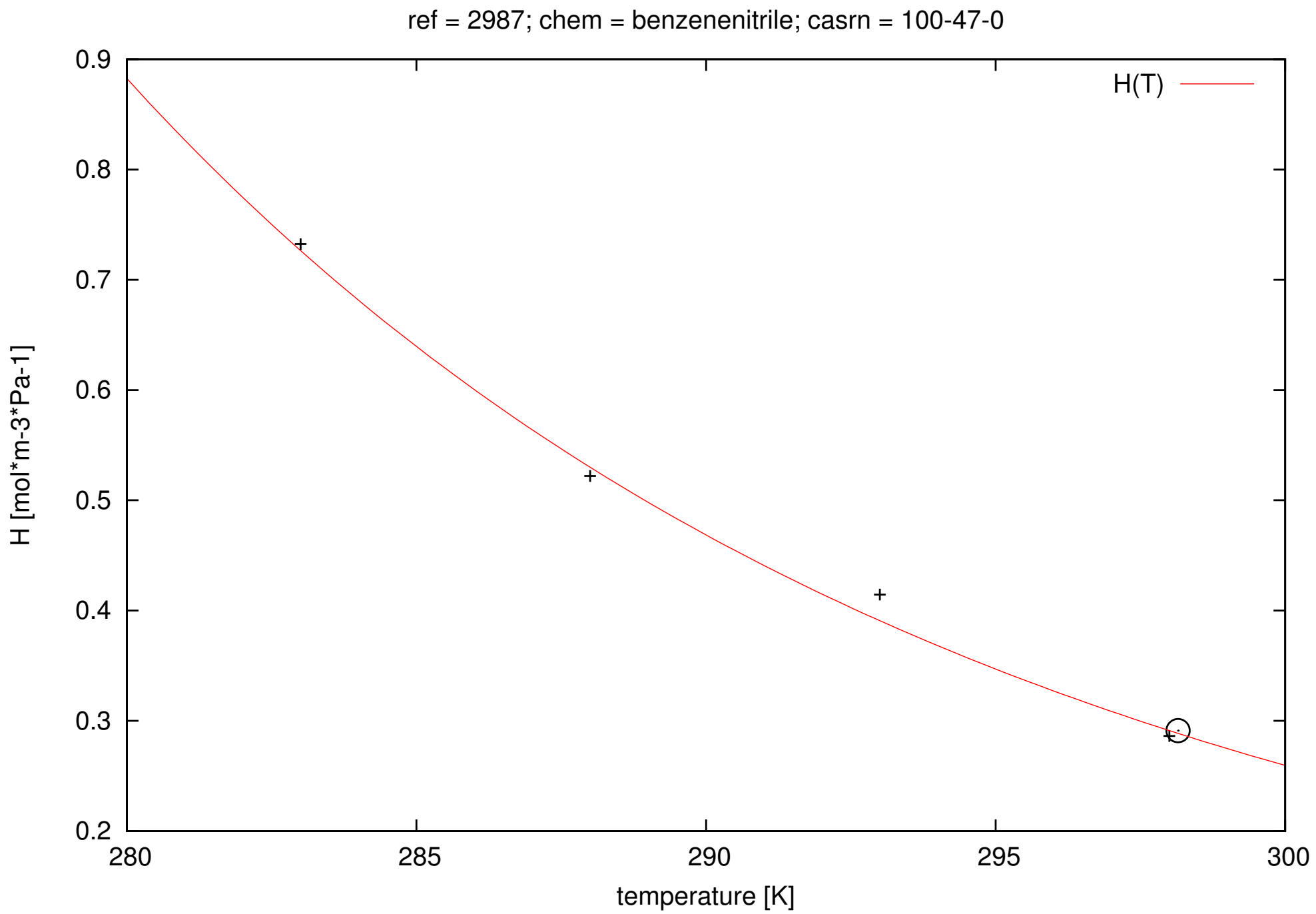

ref = 2982; chem = benzene; casrn = 71-43-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
320
330
340
350
360
370

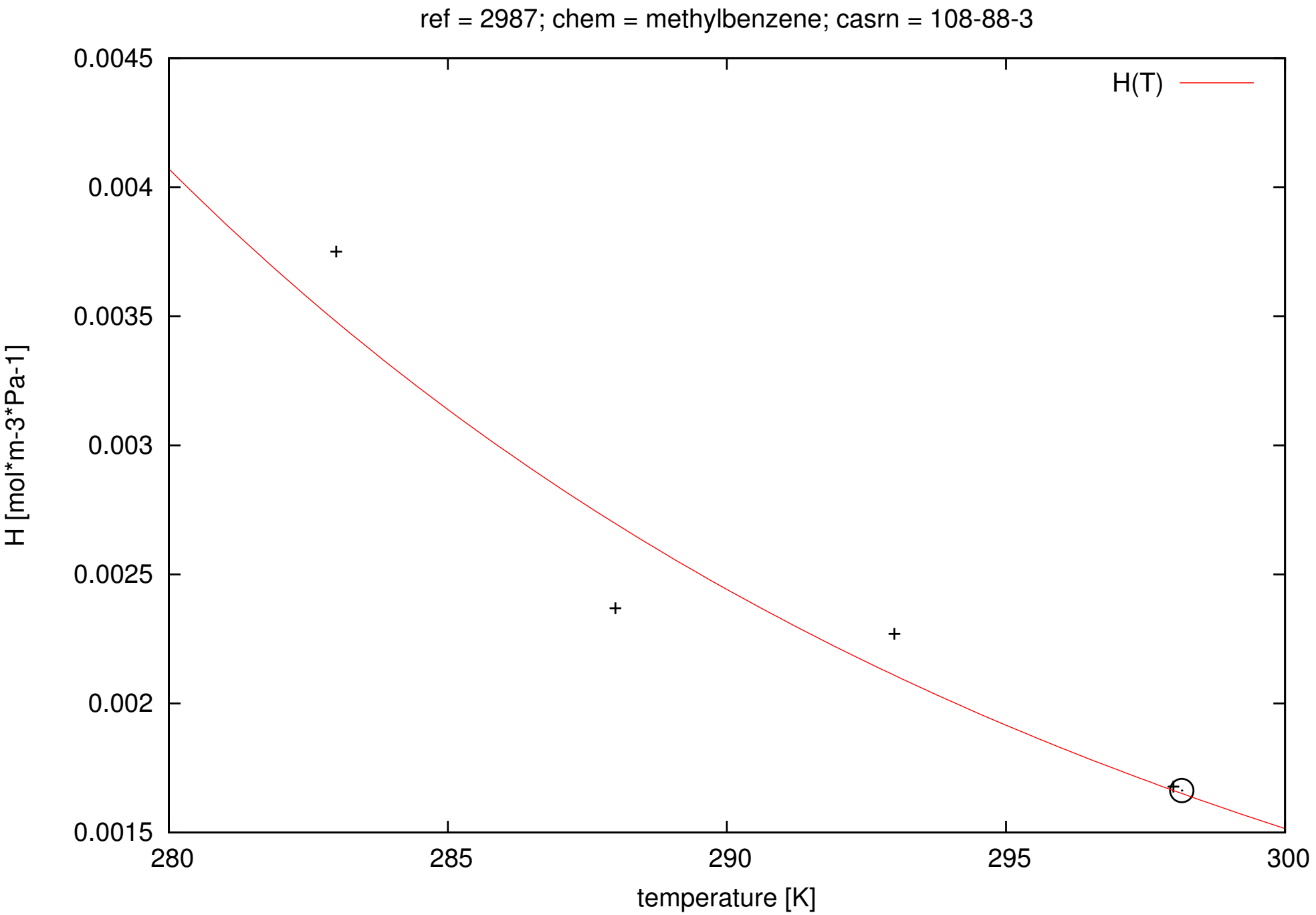

ref = 2984; chem = ethylbenzene; casrn = 100-41-4
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
280
285
290
295
300
305
310
315
320

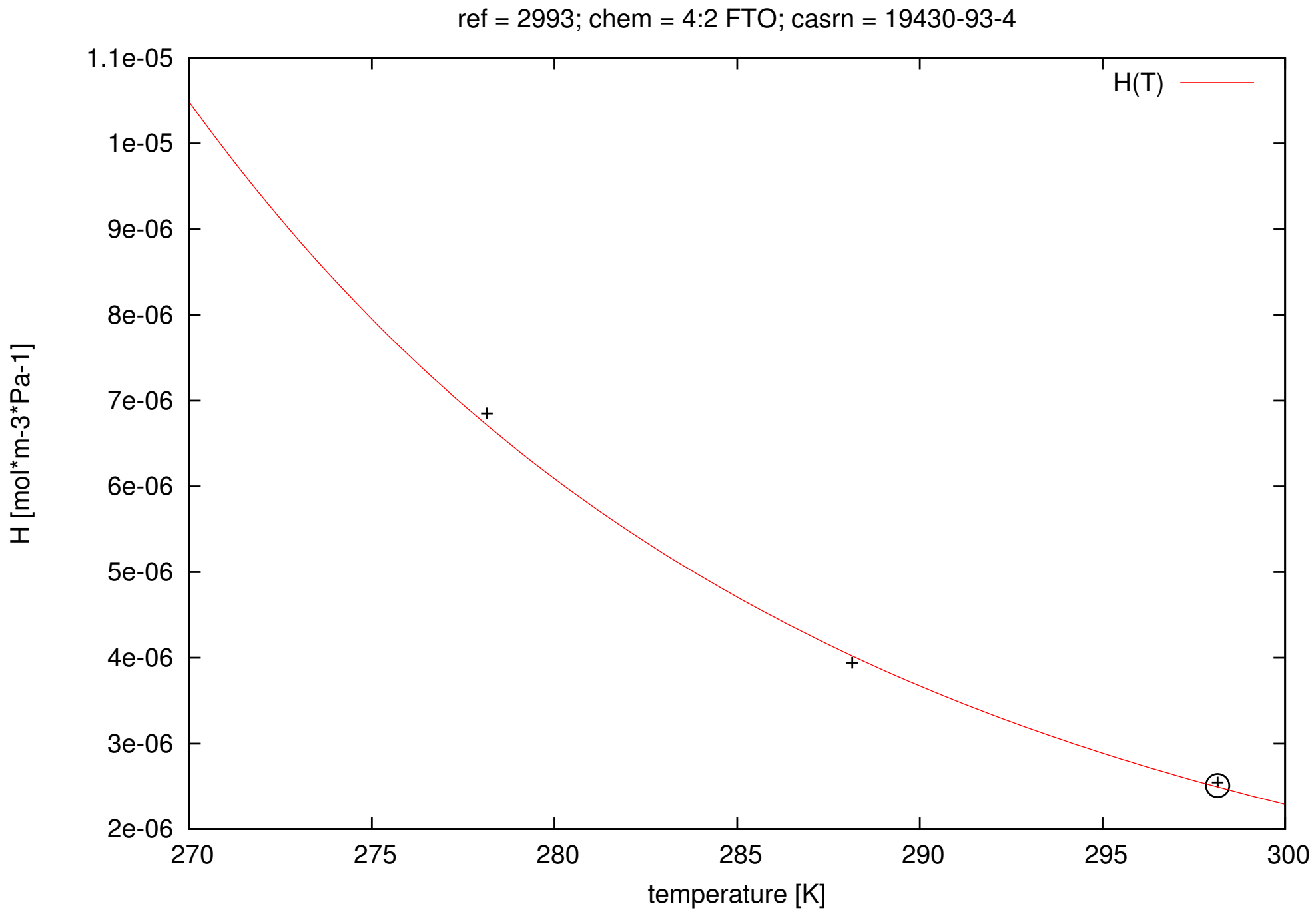

ref = 2984; chem = 1,3,5-trimethylbenzene; casrn = 108-67-8
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
280
285
290
295
300
305
310
315
320

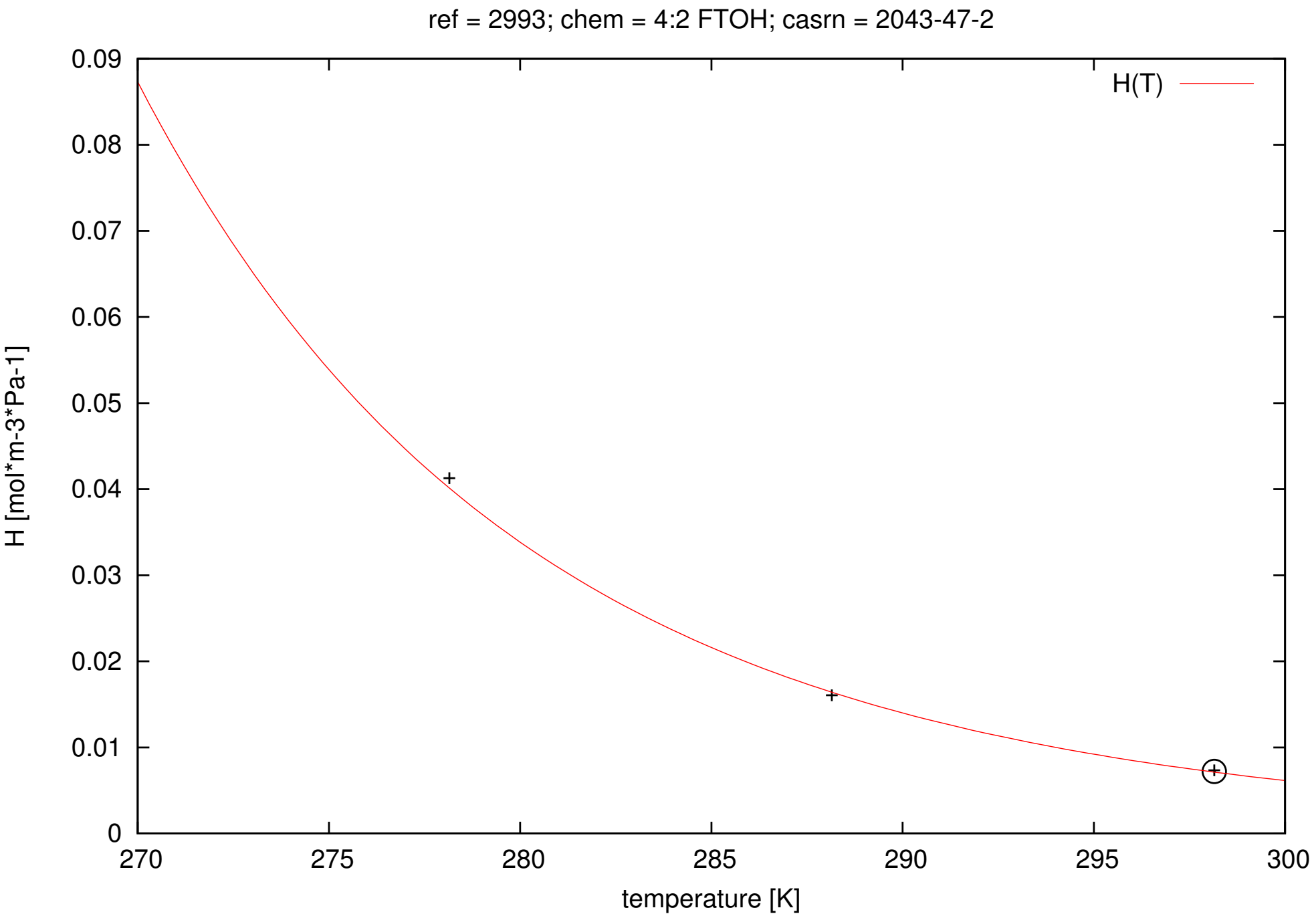

ref = 2984; chem = methylbenzene; casrn = 108-88-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
280
285
290
295
300
305
310
315
320

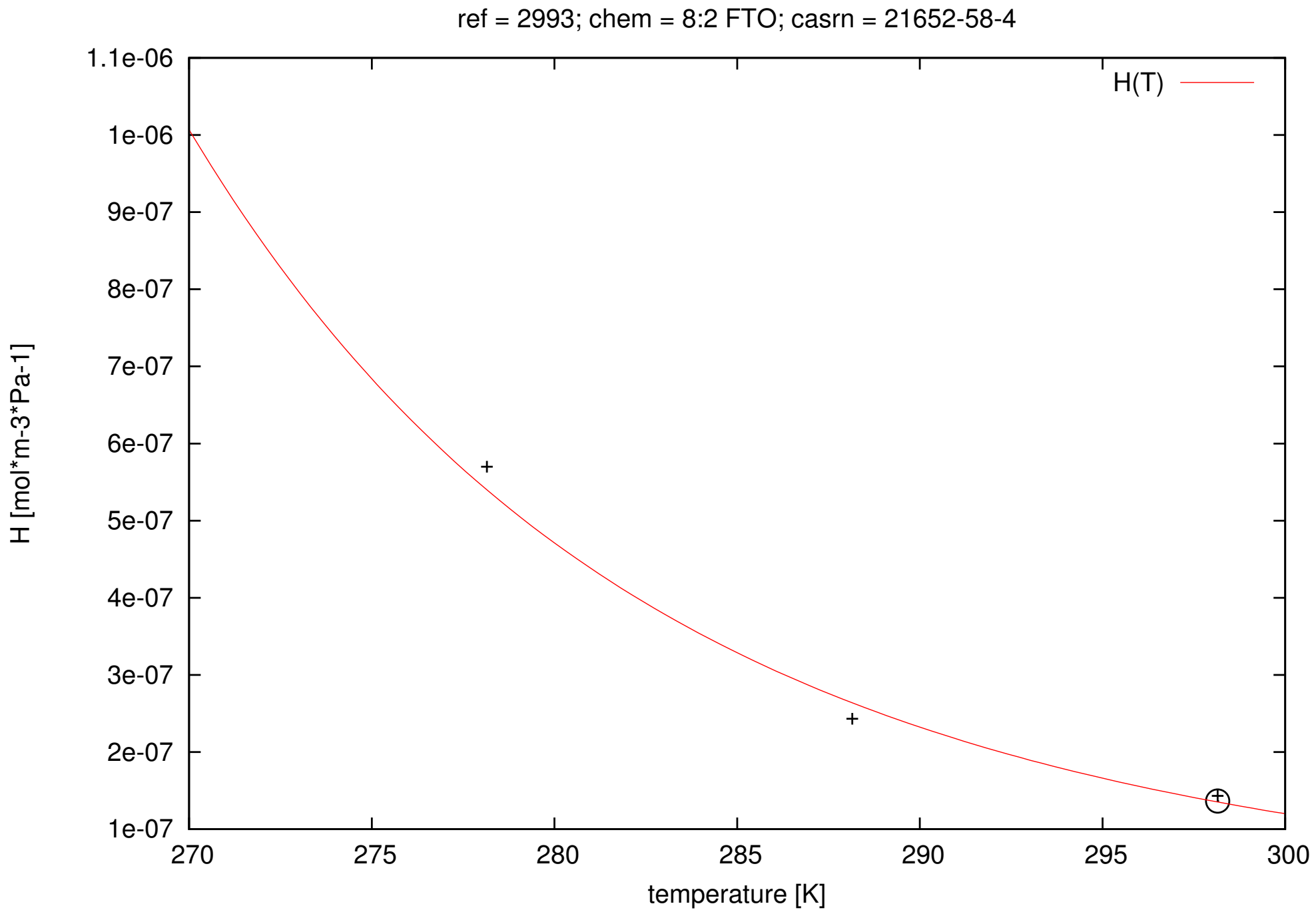

ref = 2984; chem = benzene; casrn = 71-43-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
280
285
290
295
300
305
310
315
320

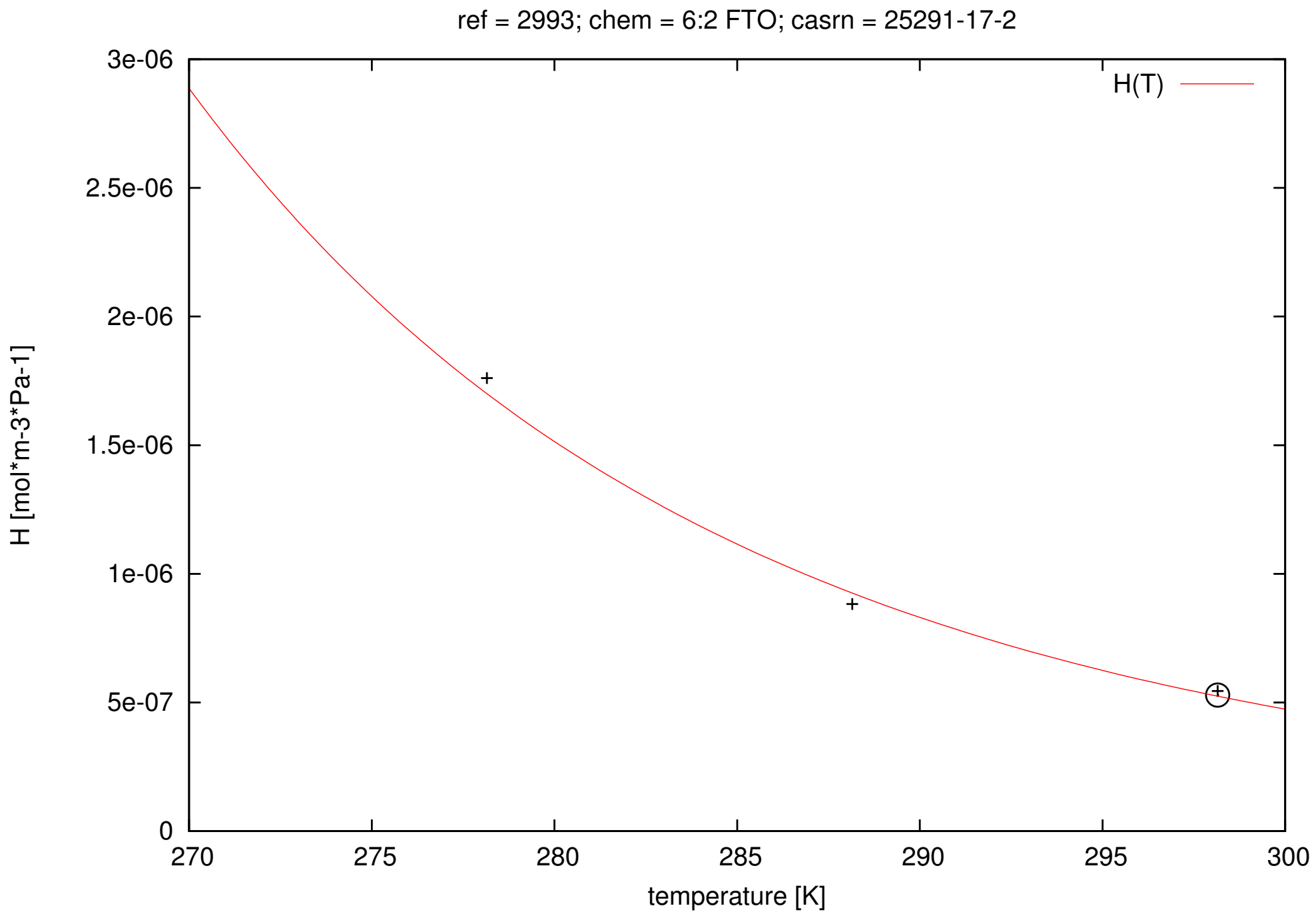

ref = 2987; chem = benzenenitrile; casrn = 100-47-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
280
285
290
295
300

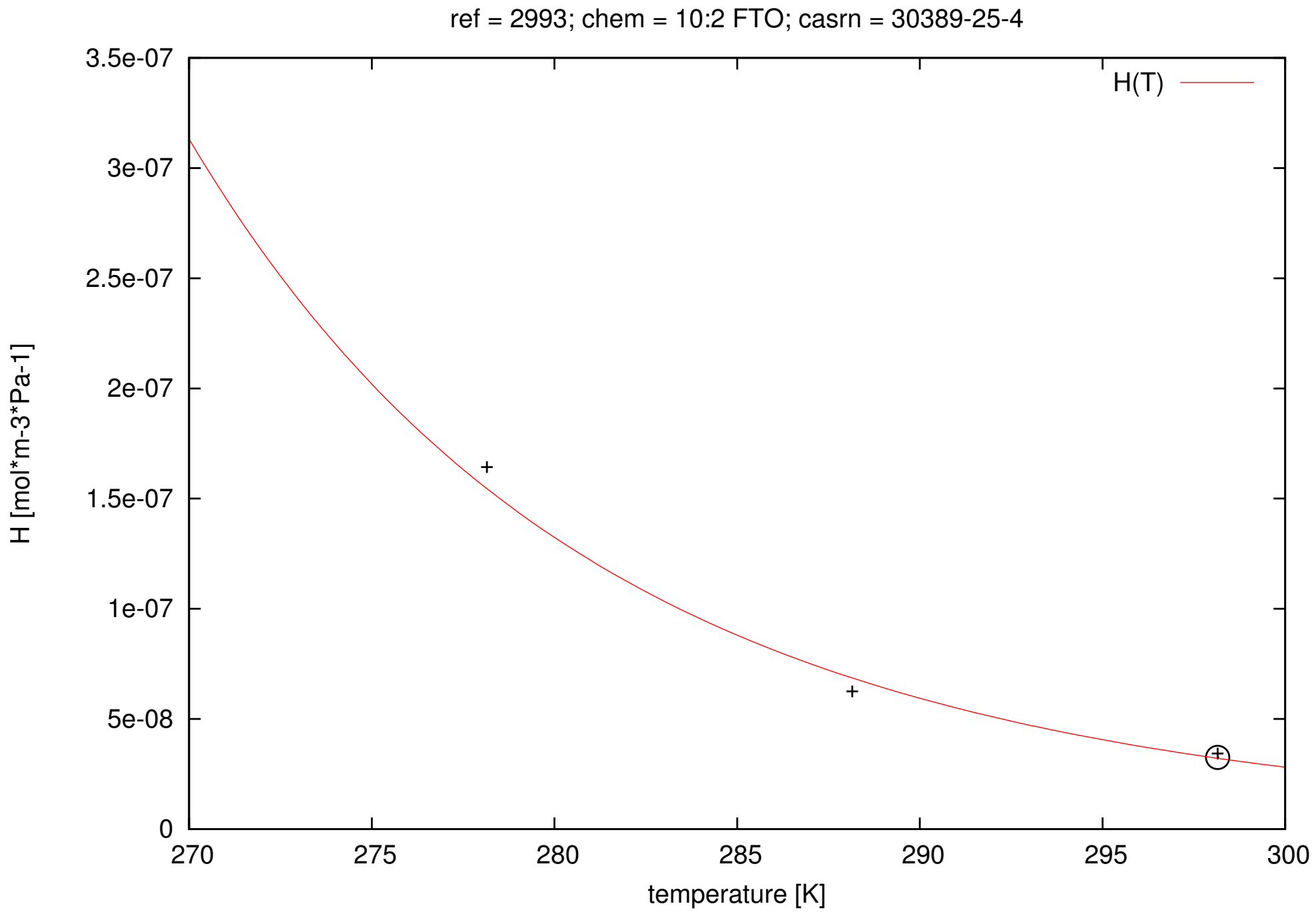

ref = 2987; chem = methylbenzene; casrn = 108-88-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
280
285
290
295
300

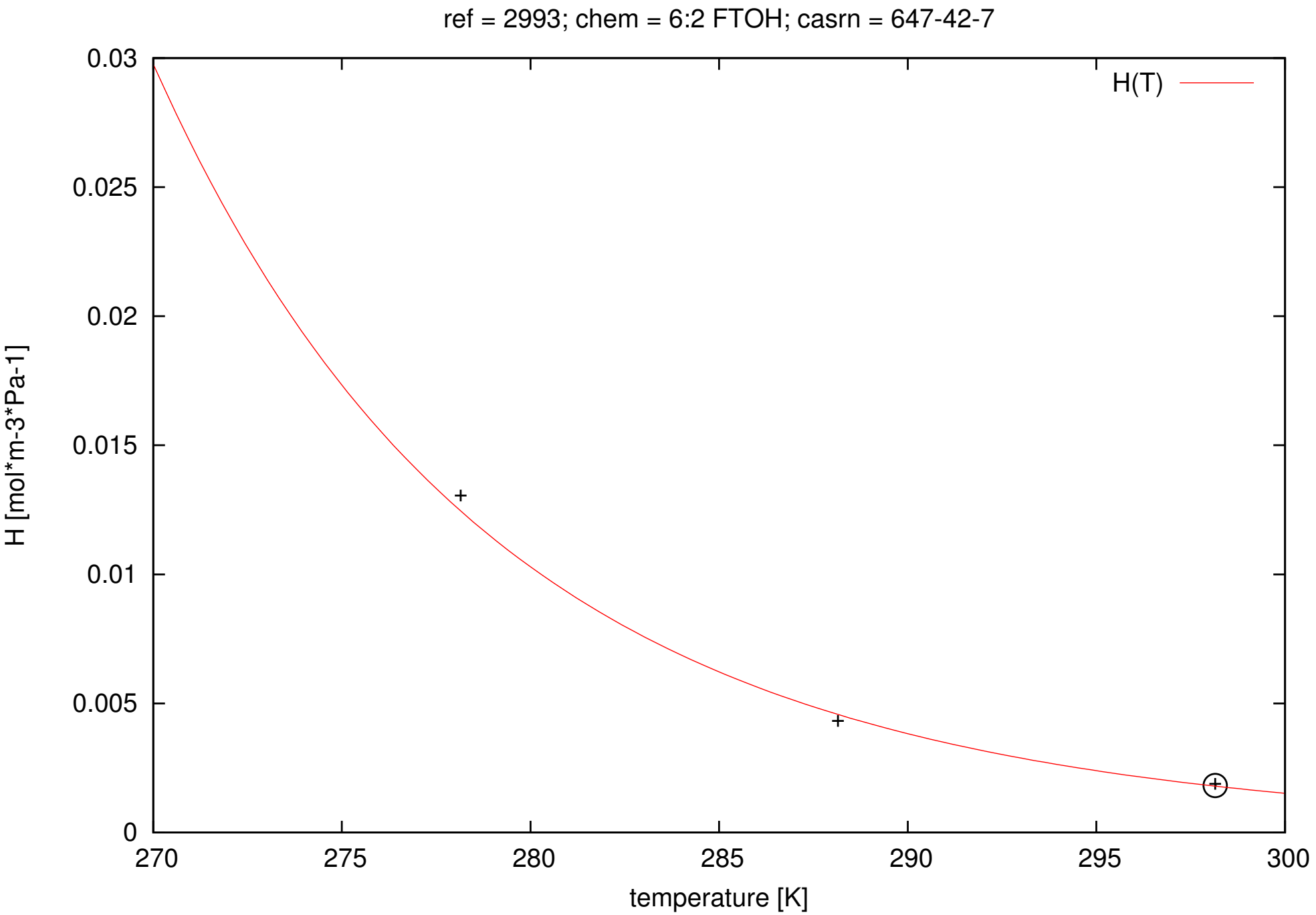

ref = 2993; chem = 4:2 FTO; casrn = 19430-93-4
H(T)
H [mol*m-3*Pa-1]
temperature [K]
1.1e-05
1e-05
9e-06
8e-06
7e-06
6e-06
5e-06
4e-06
3e-06
2e-06
270
275
280
285
290
295
300

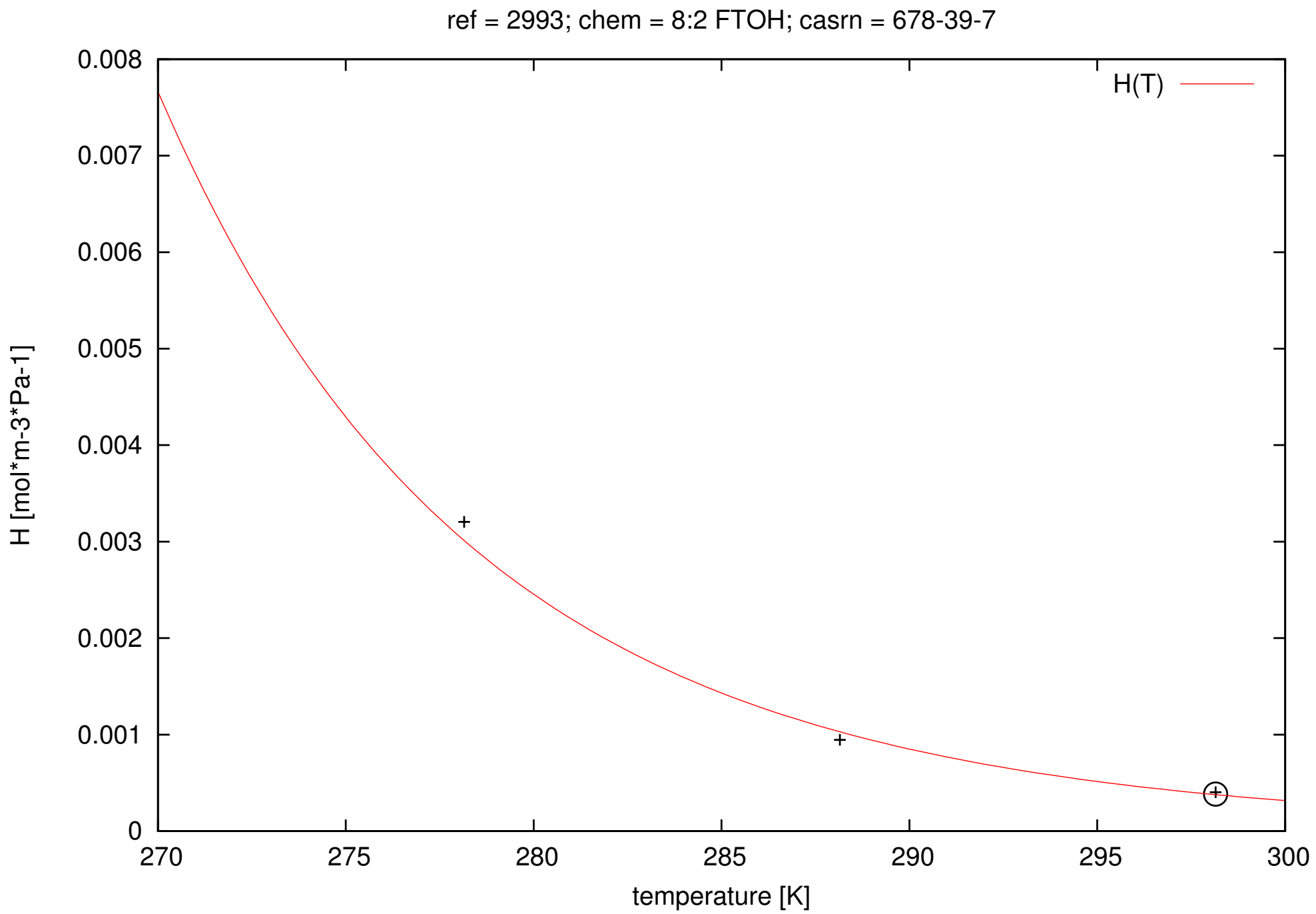

ref = 2993; chem = 4:2 FTOH; casrn = 2043-47-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
270
275
280
285
290
295
300

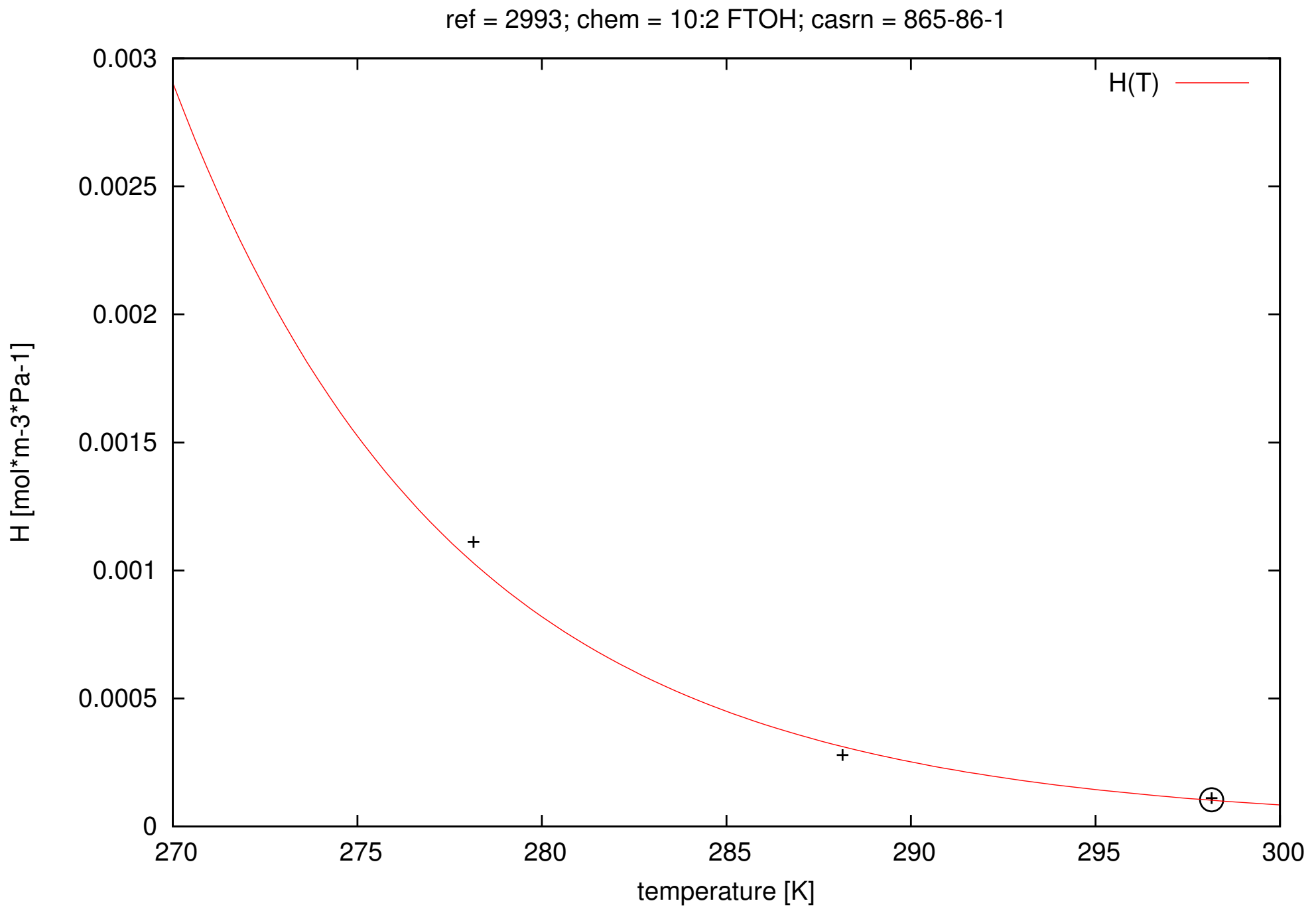

ref = 2993; chem = 8:2 FTO; casrn = 21652-58-4
H(T)
H [mol*m-3*Pa-1]
temperature [K]
1.1e-06
1e-06
9e-07
8e-07
7e-07
6e-07
5e-07
4e-07
3e-07
2e-07
1e-07
270
275
280
285
290
295
300

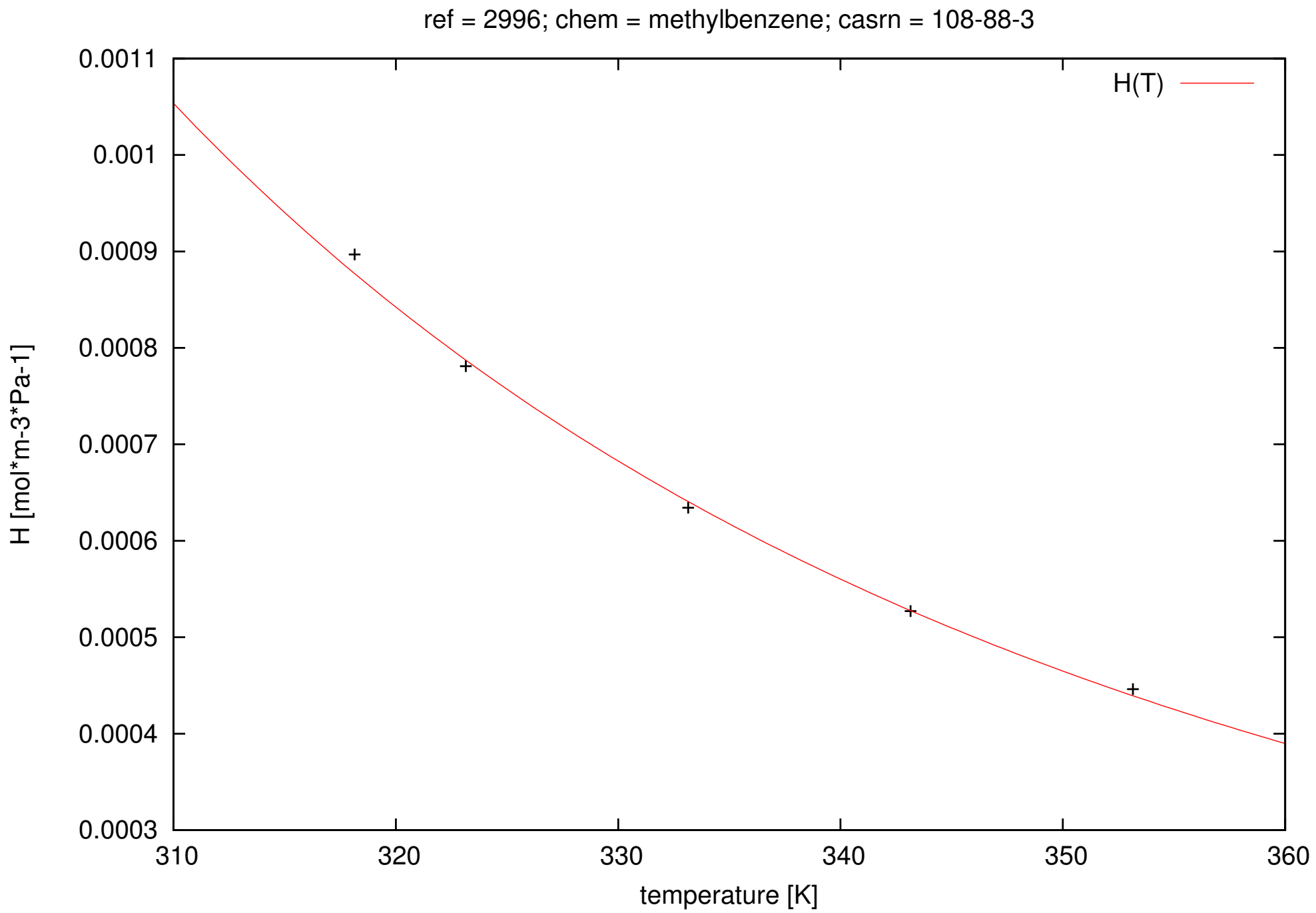

ref = 2993; chem = 6:2 FTO; casrn = 25291-17-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
3e-06
2.5e-06
2e-06
1.5e-06
1e-06
5e-07
0
270
275
280
285
290
295
300

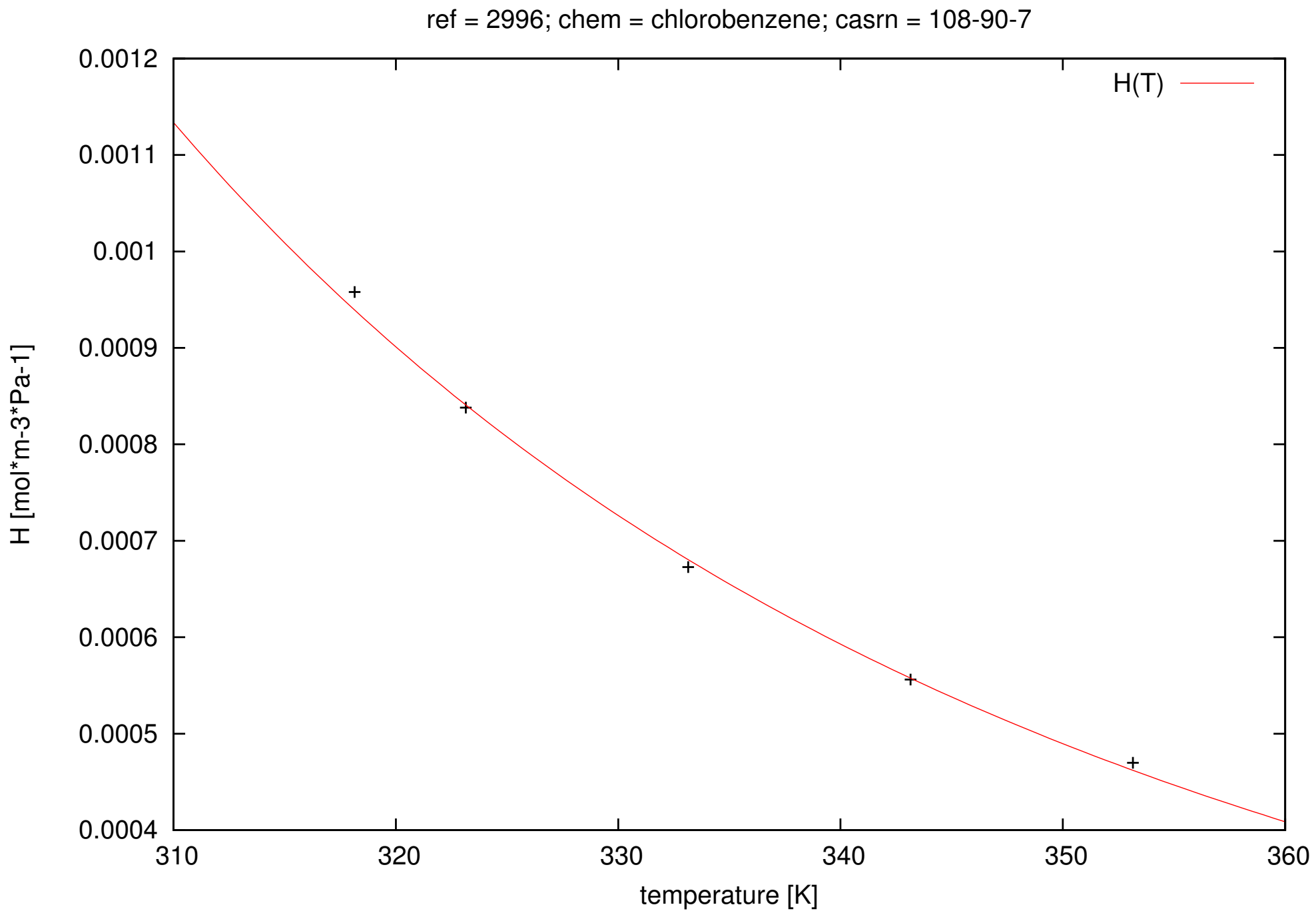

ref = 2993; chem = 10:2 FTO; casrn = 30389-25-4
H(T)
H [mol*m-3*Pa-1]
temperature [K]
3.5e-07
3e-07
2.5e-07
2e-07
1.5e-07
1e-07
5e-08
0
270
275
280
285
290
295
300

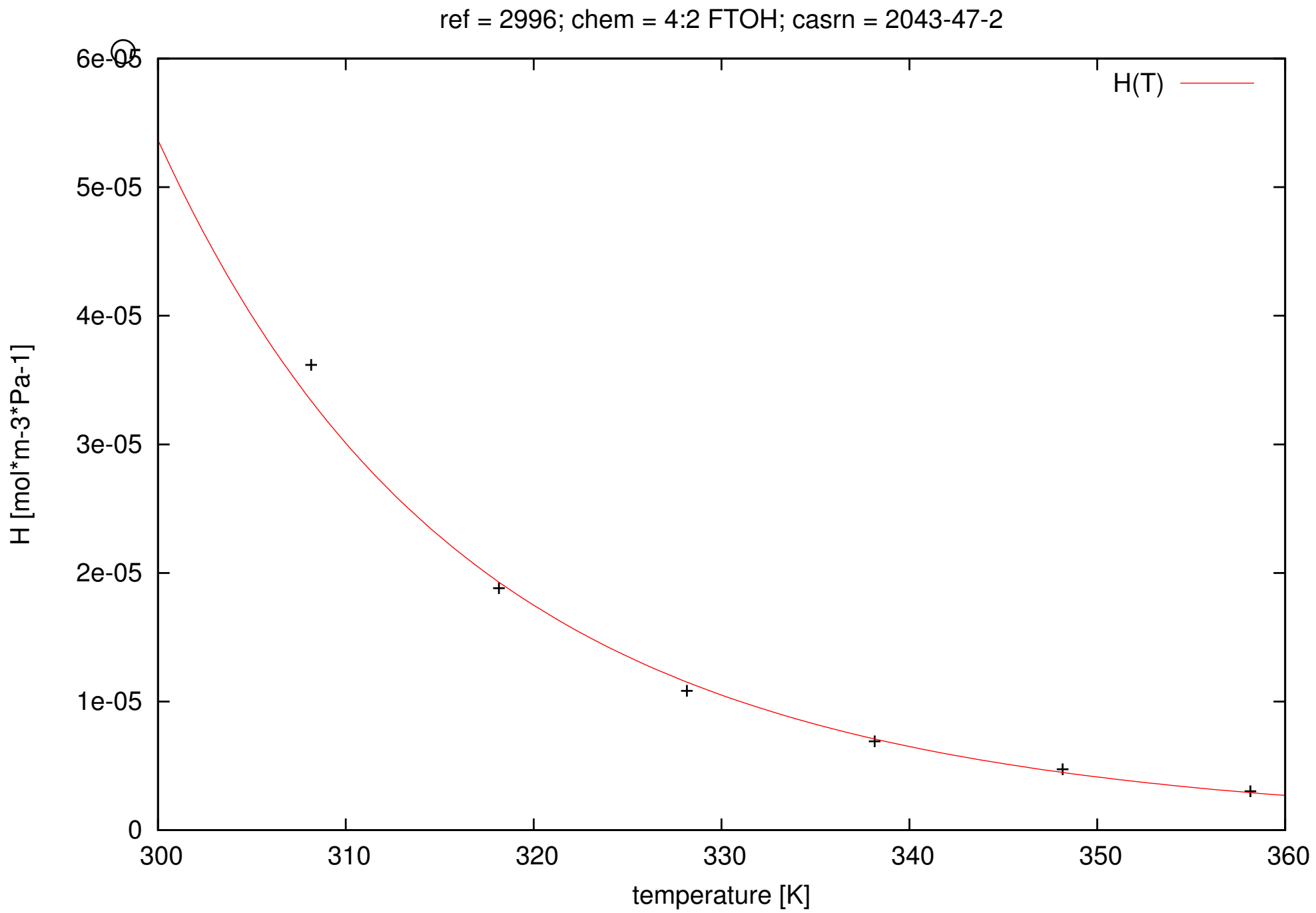

ref = 2993; chem = 6:2 FTOH; casrn = 647-42-7
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.03
0.025
0.02
0.015
0.01
0.005
0
270
275
280
285
290
295
300

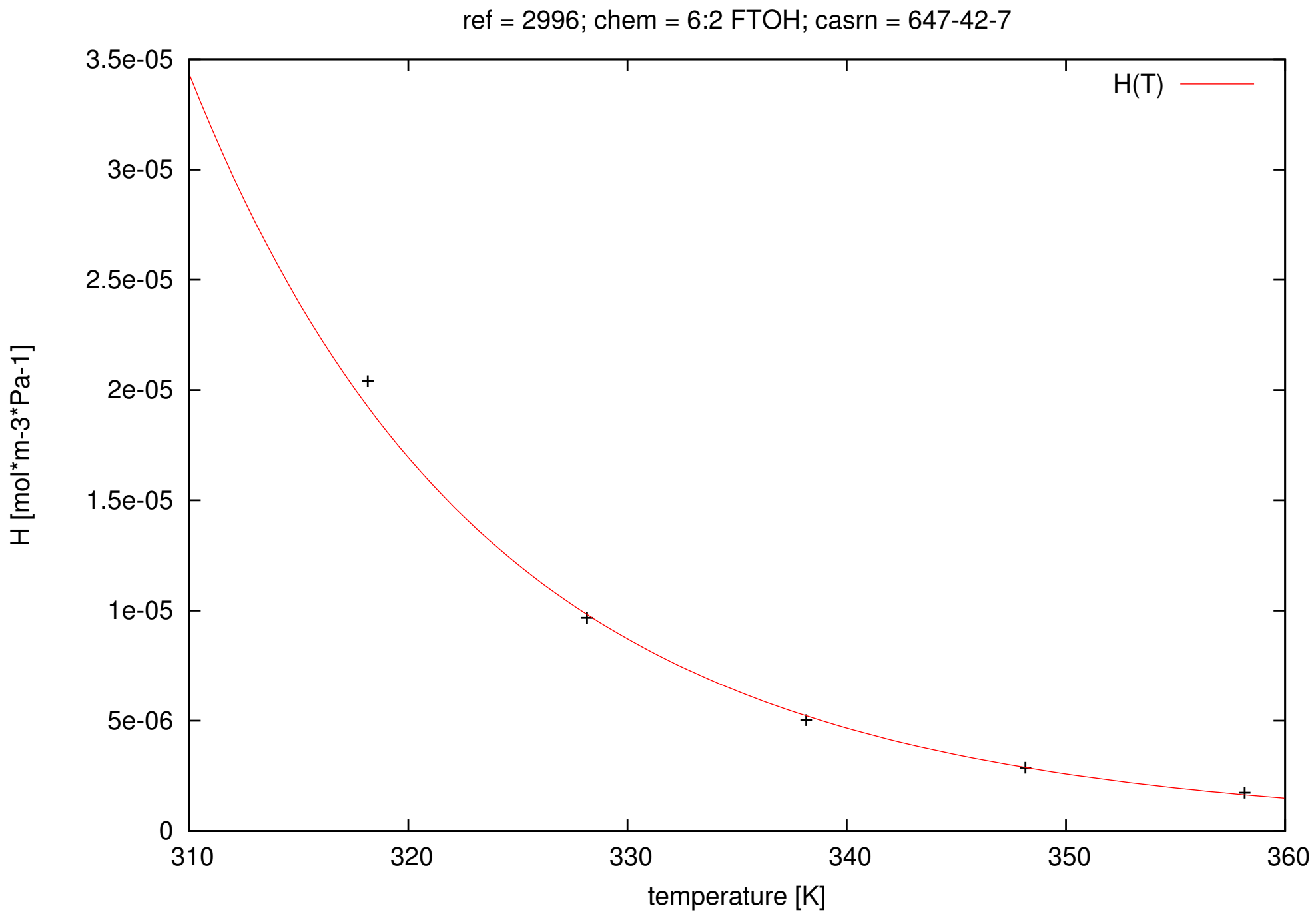

ref = 2993; chem = 8:2 FTOH; casrn = 678-39-7
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0
270
275
280
285
290
295
300

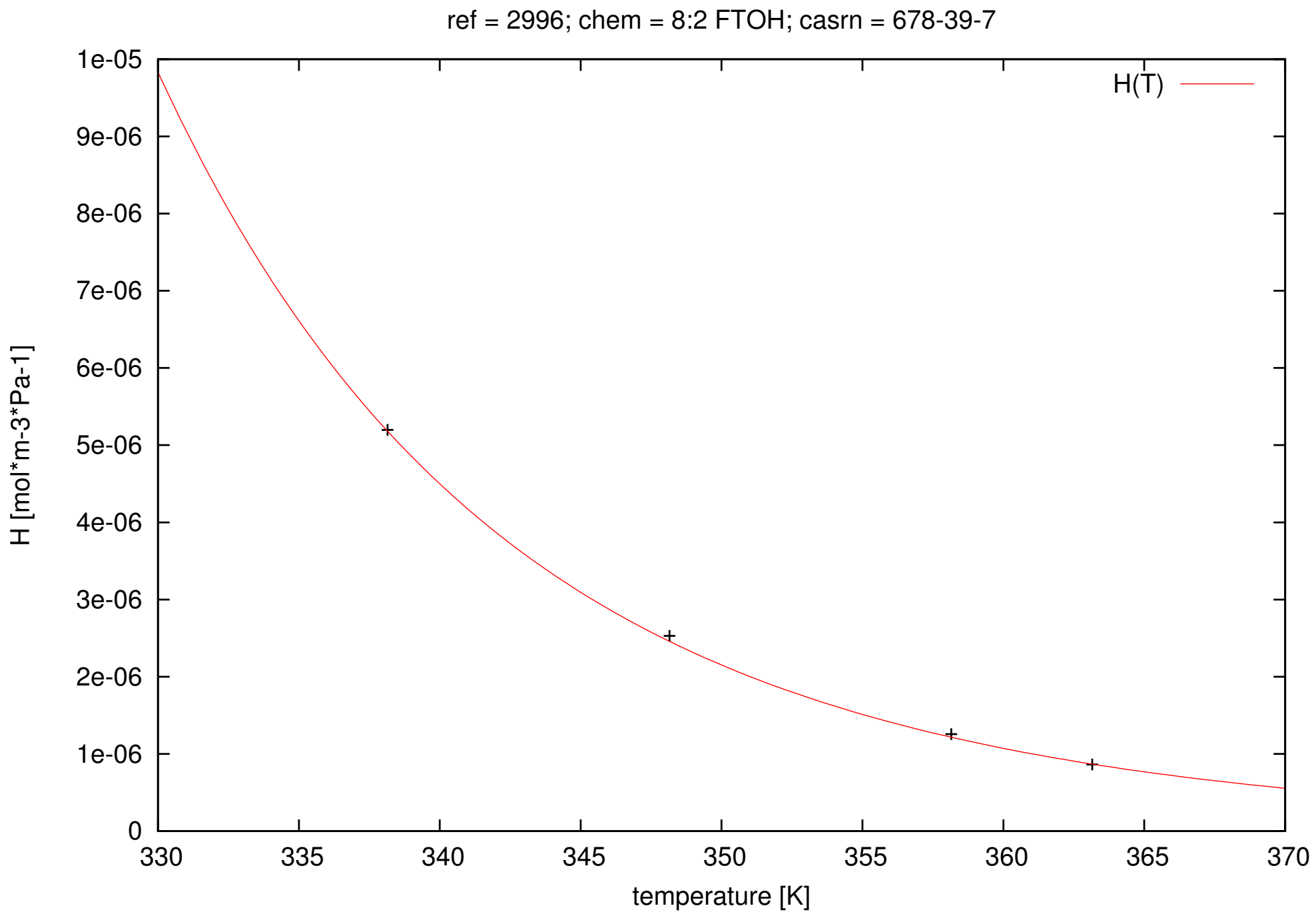

ref = 2993; chem = 10:2 FTOH; casrn = 865-86-1
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
270
275
280
285
290
295
300

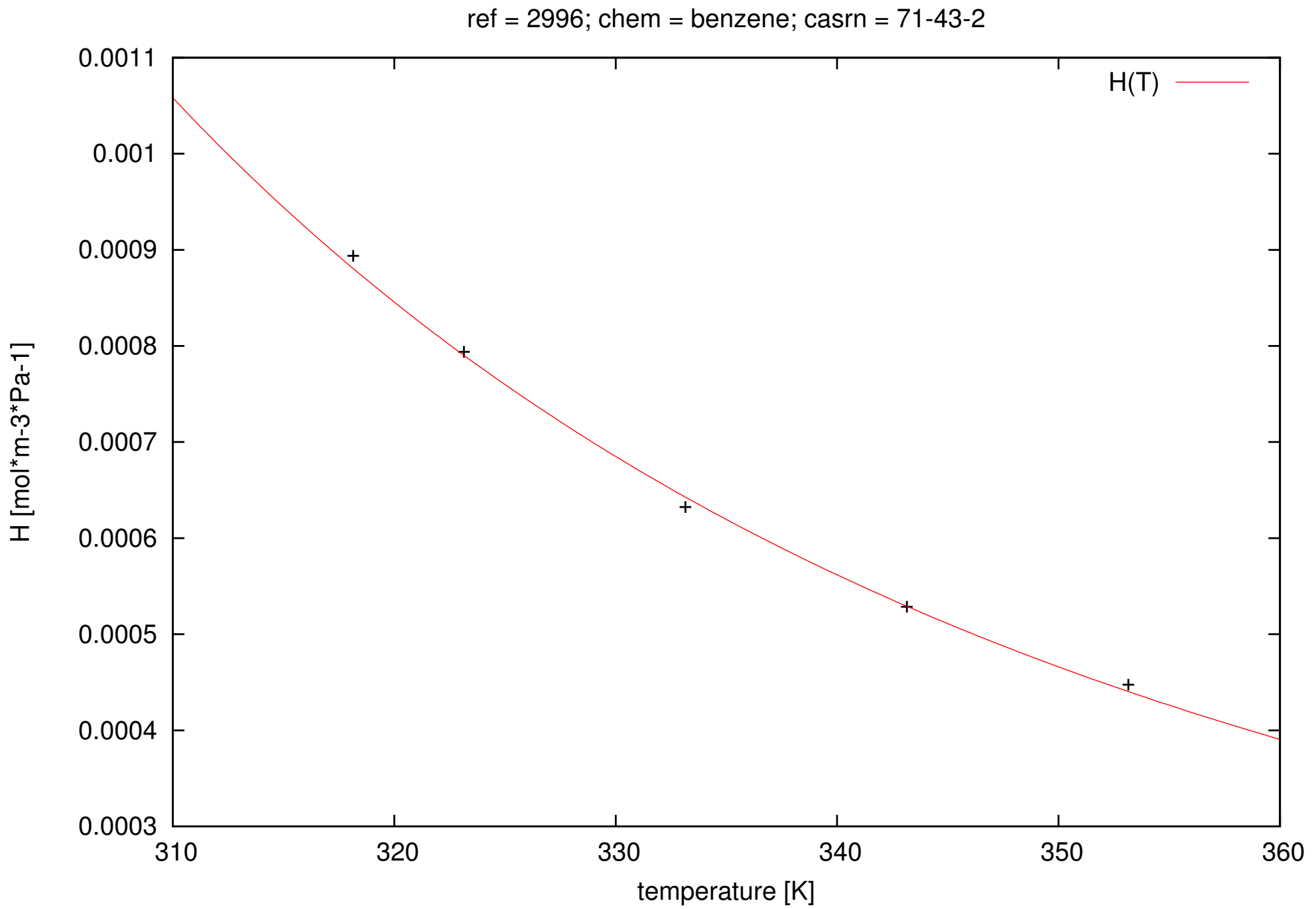

ref = 2996; chem = methylbenzene; casrn = 108-88-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0011
0.001
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
310
320
330
340
350
360

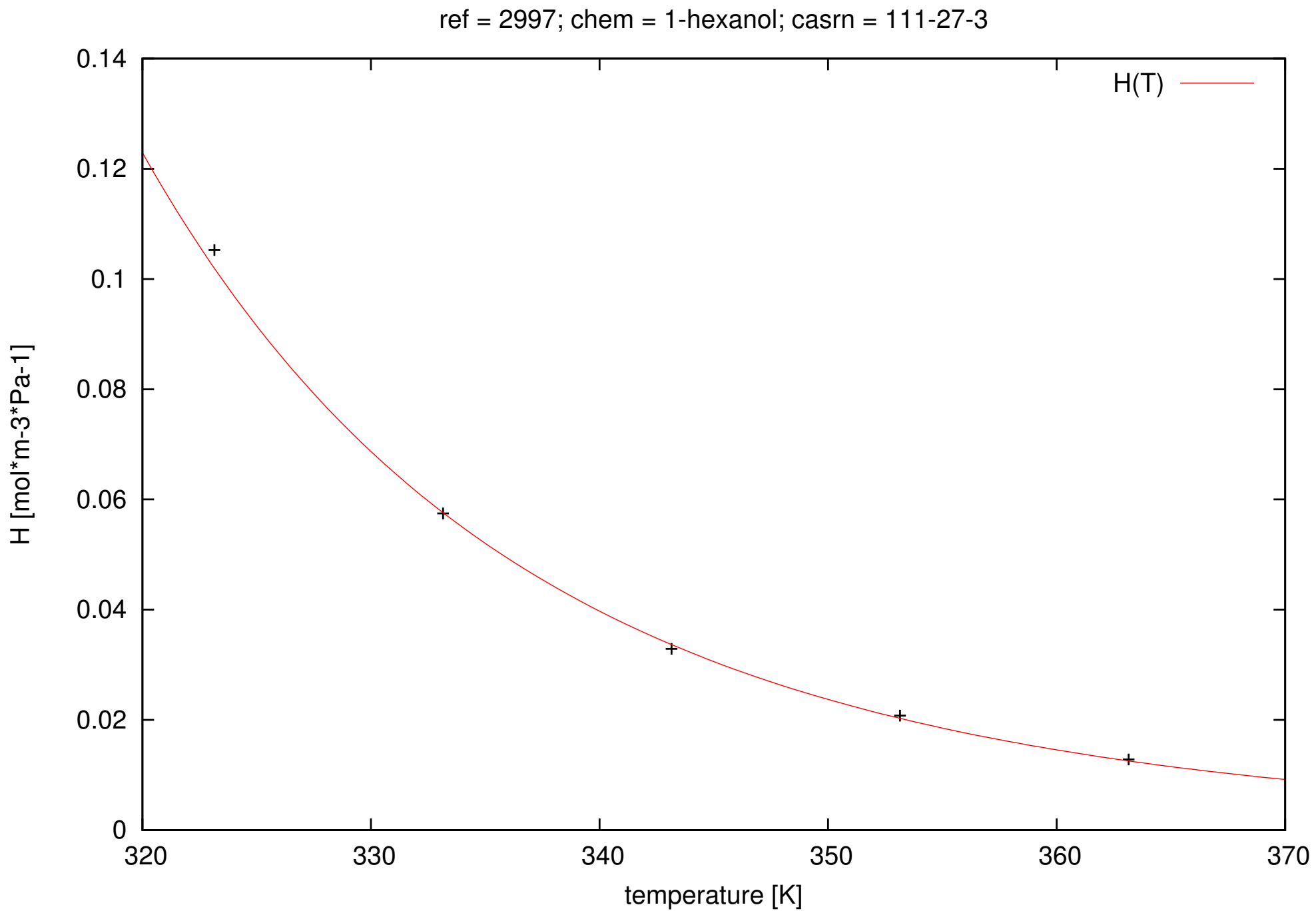

ref = 2996; chem = chlorobenzene; casrn = 108-90-7
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0012
0.0011
0.001
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004
310
320
330
340
350
360

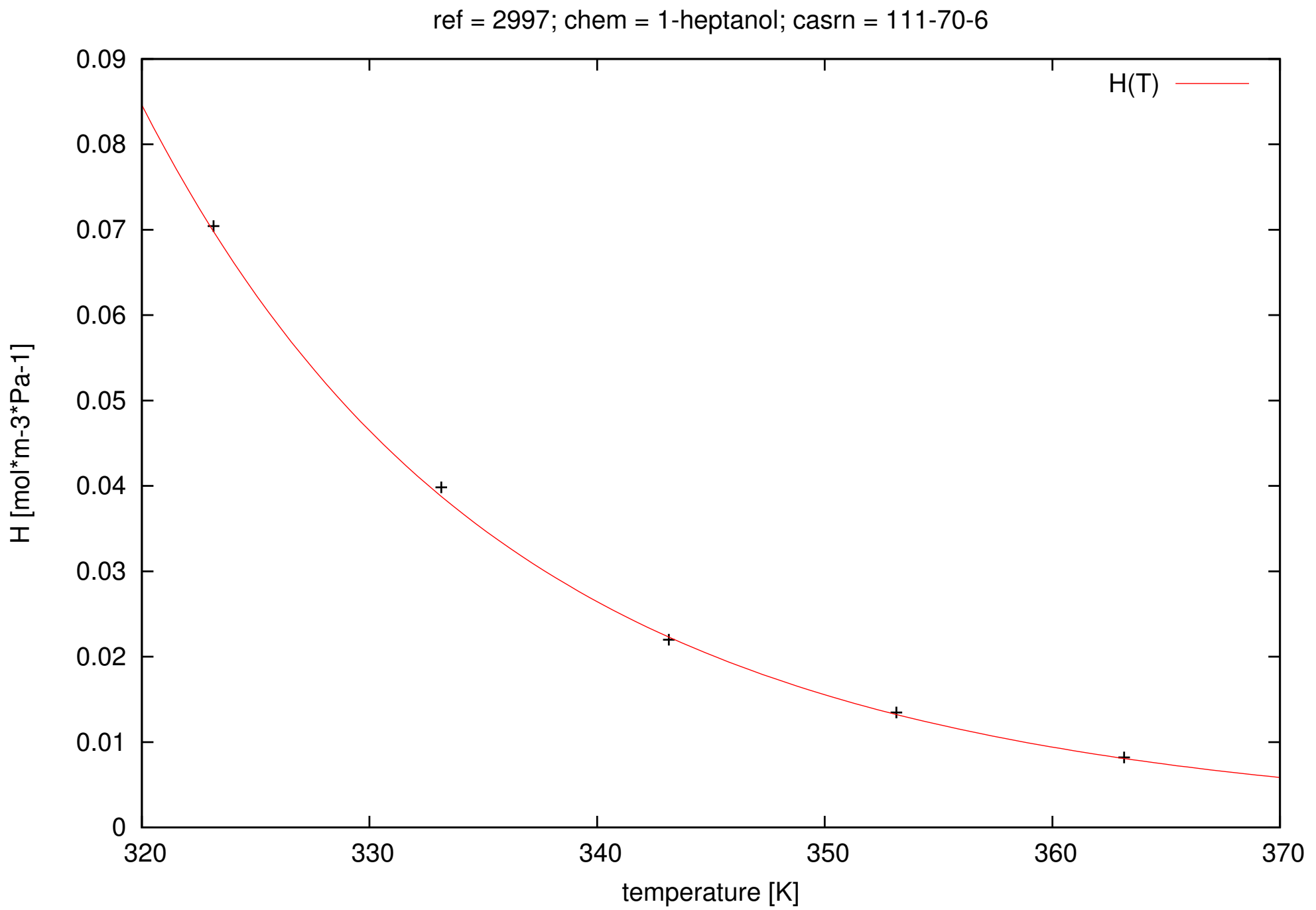

ref = 2996; chem = 4:2 FTOH; casrn = 2043-47-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
6e-05
5e-05
4e-05
3e-05
2e-05
1e-05
0
300
310
320
330
340
350
360

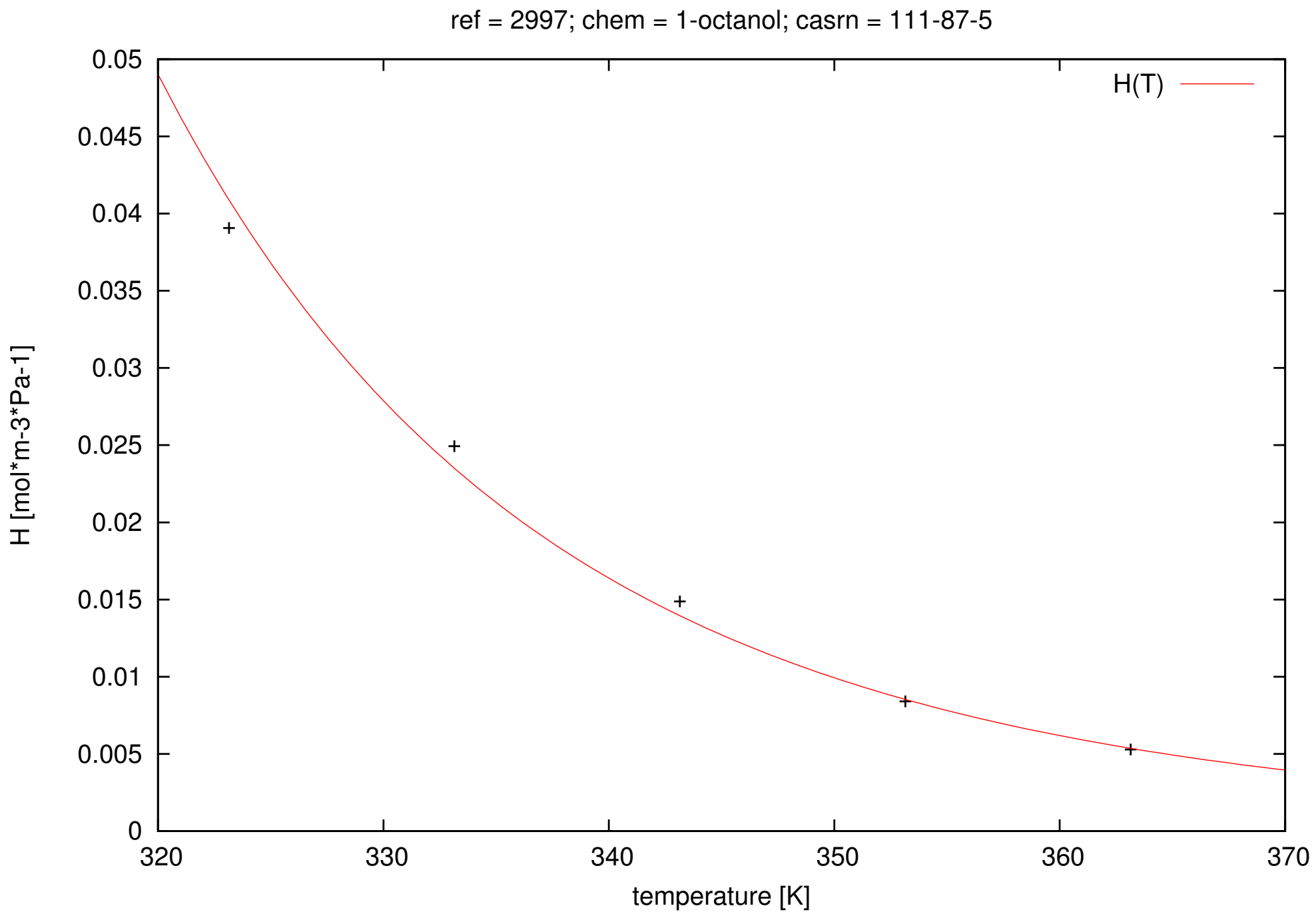

ref = 2996; chem = 6:2 FTOH; casrn = 647-42-7
H(T)
H [mol*m-3*Pa-1]
temperature [K]
3.5e-05
3e-05
2.5e-05
2e-05
1.5e-05
1e-05
5e-06
0
310
320
330
340
350
360

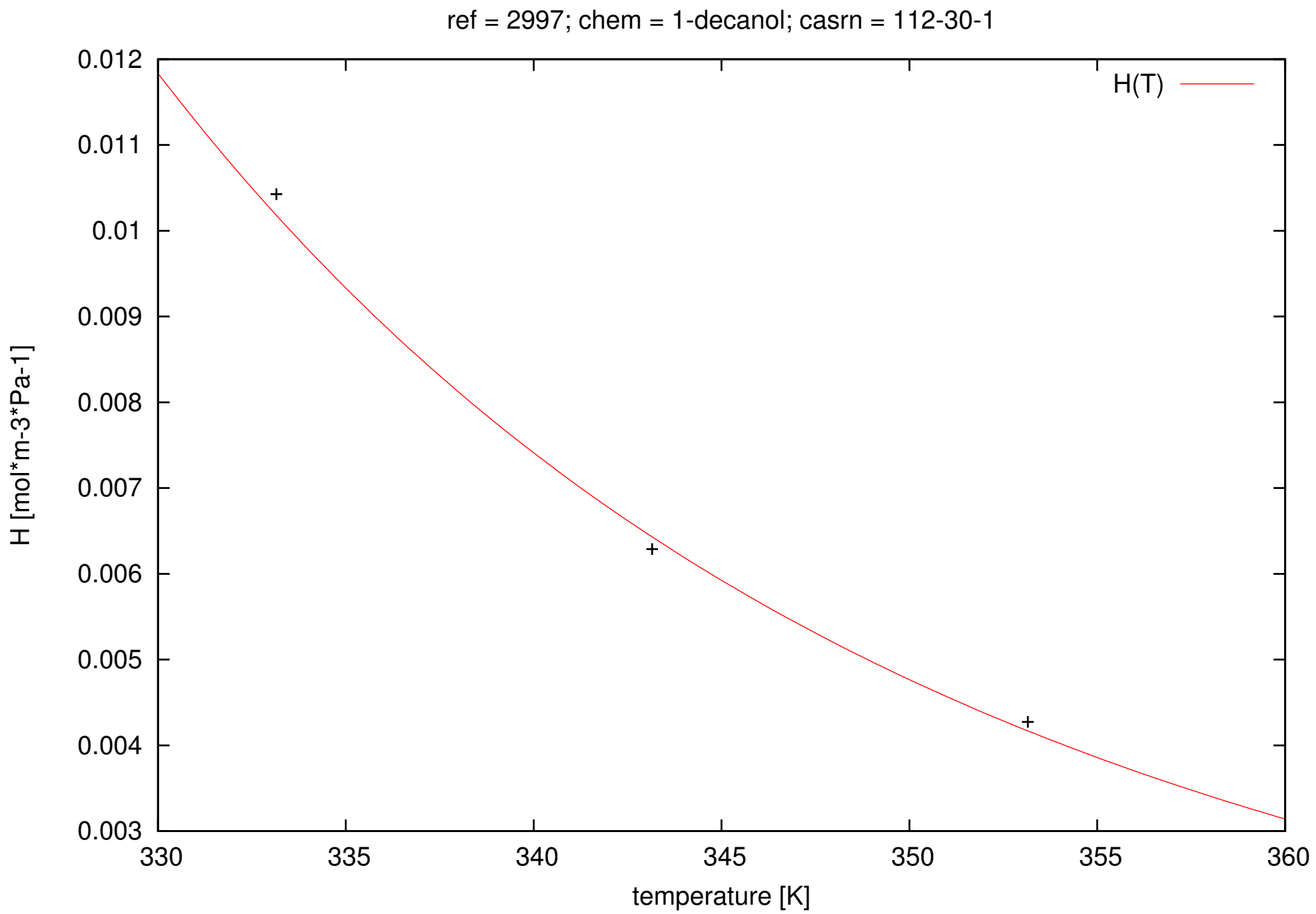

ref = 2996; chem = 8:2 FTOH; casrn = 678-39-7
H(T)
H [mol*m-3*Pa-1]
temperature [K]
1e-05
9e-06
8e-06
7e-06
6e-06
5e-06
4e-06
3e-06
2e-06
1e-06
0
330
335
340
345
350
355
360
365
370

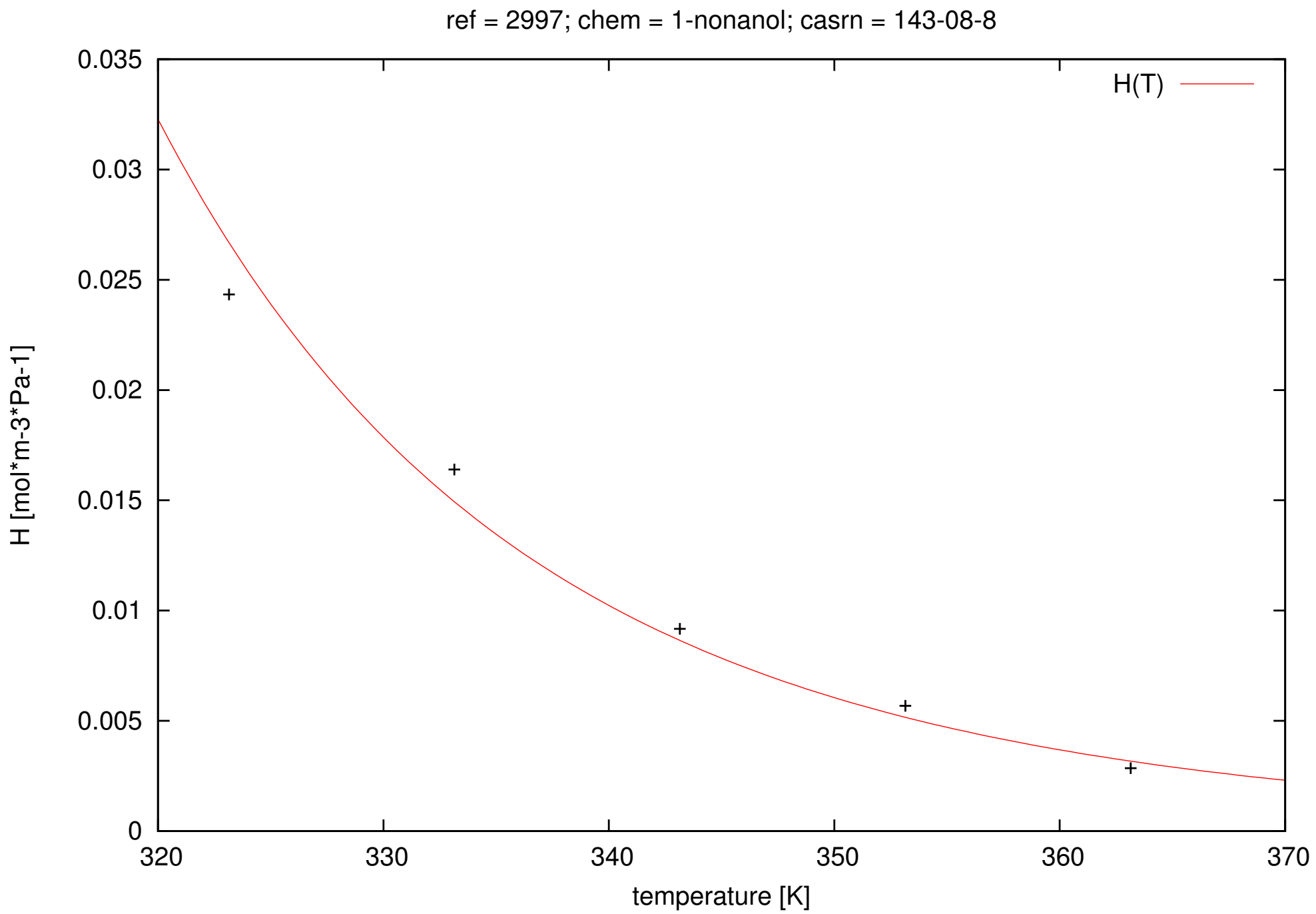

ref = 2996; chem = benzene; casrn = 71-43-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0011
0.001
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
310
320
330
340
350
360

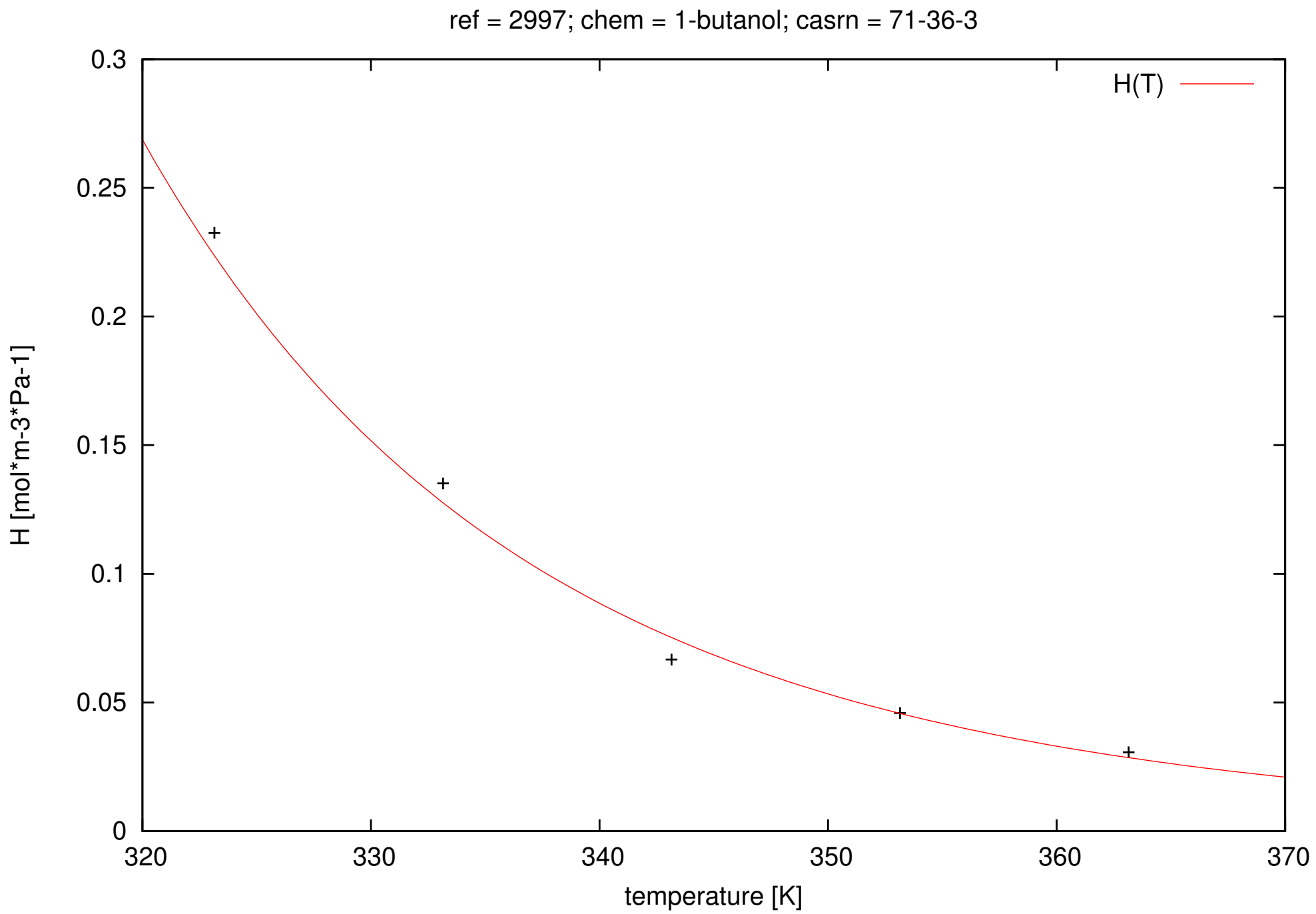

ref = 2997; chem = 1-hexanol; casrn = 111-27-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
320
330
340
350
360
370

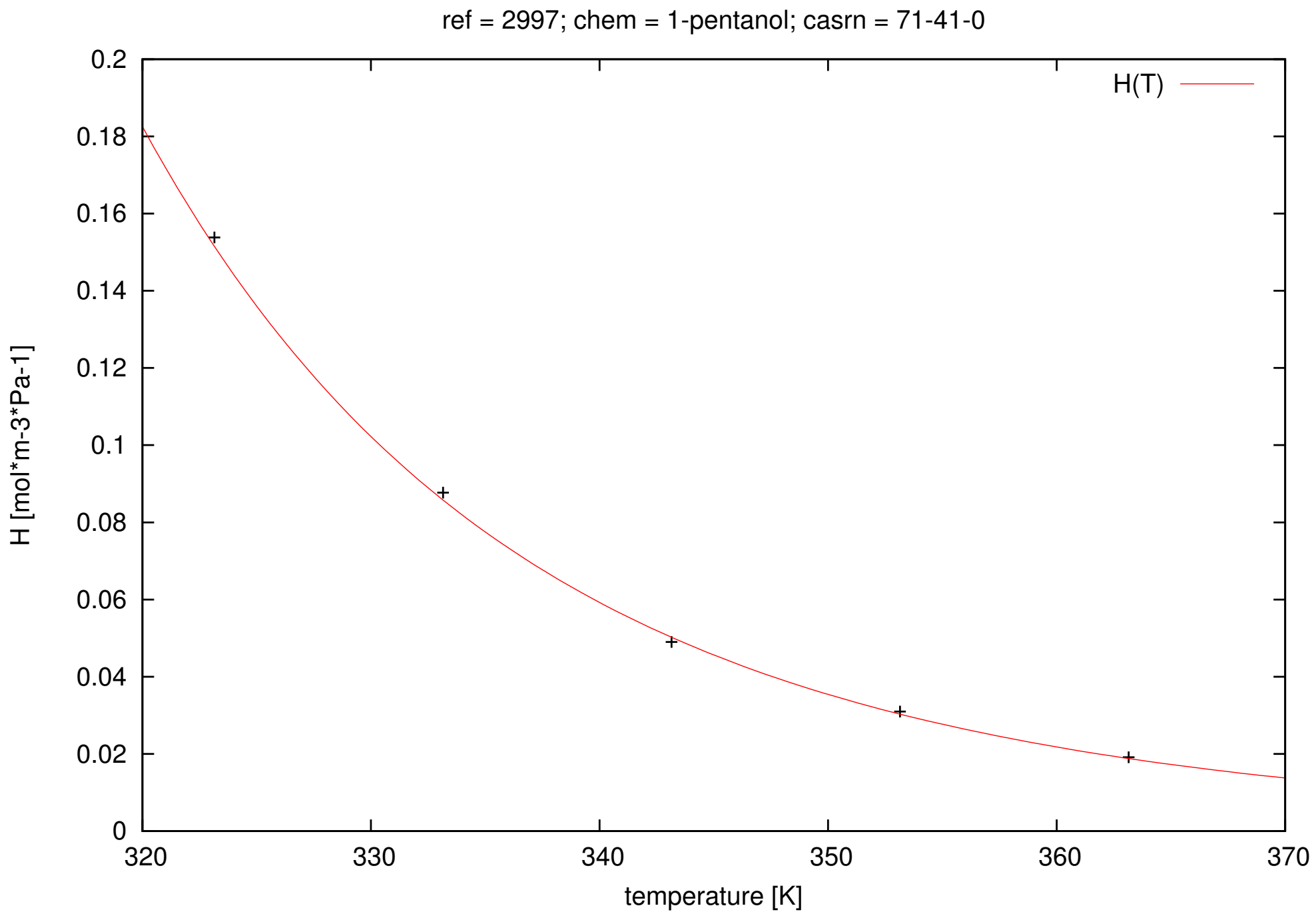

ref = 2997; chem = 1-heptanol; casrn = 111-70-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
320
330
340
350
360
370

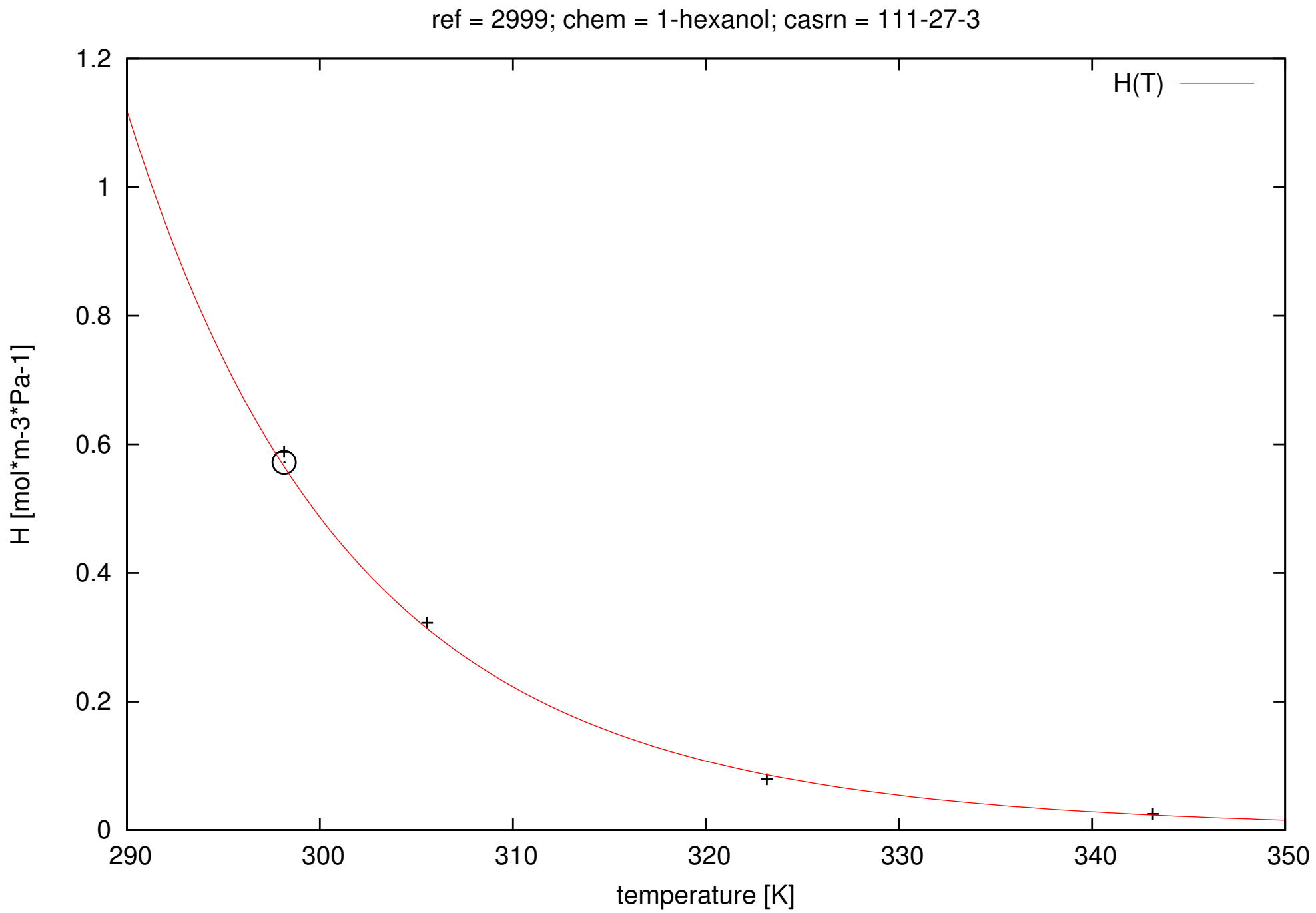

ref = 2997; chem = 1-octanol; casrn = 111-87-5
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
320
330
340
350
360
370

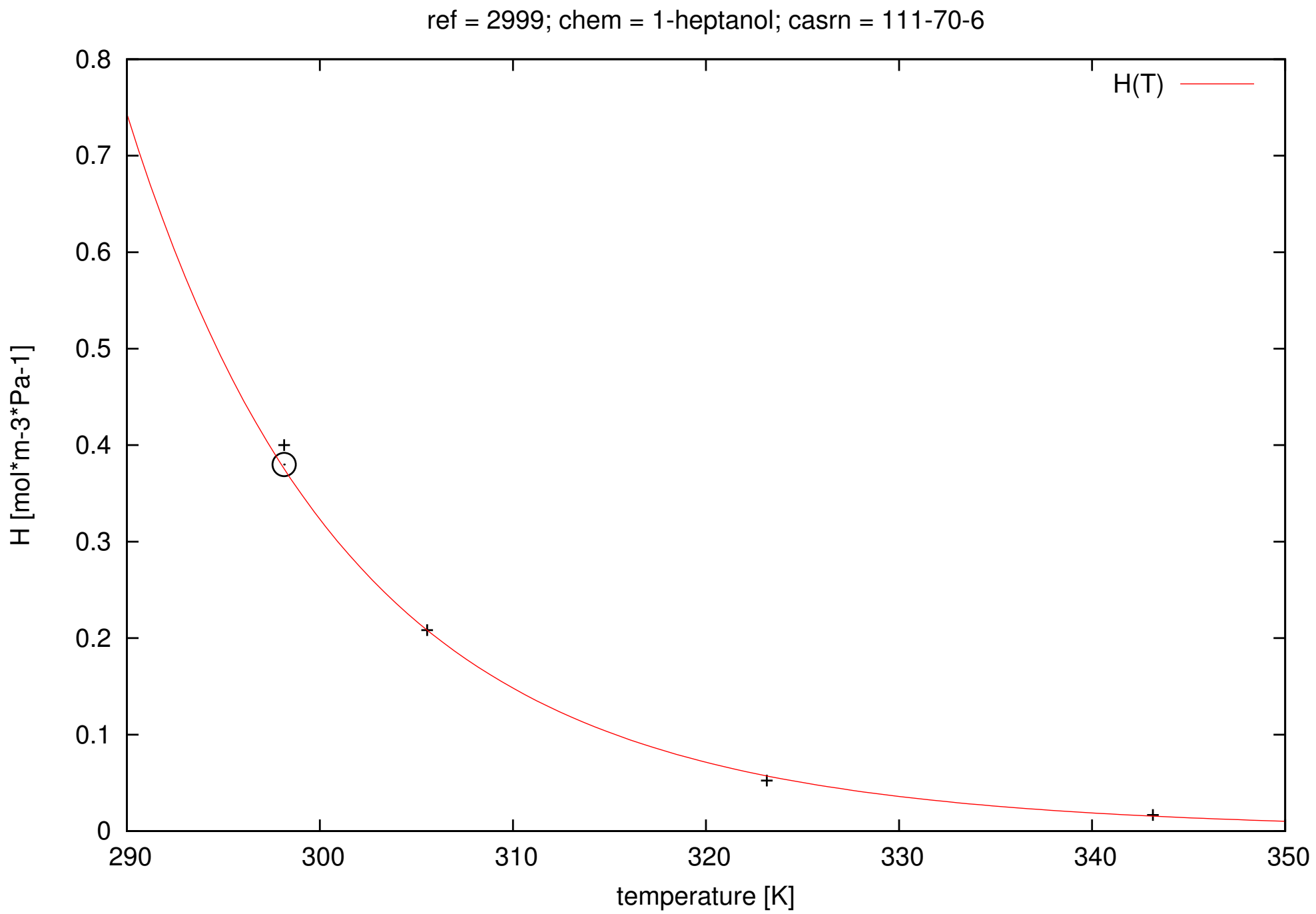

ref = 2997; chem = 1-decanol; casrn = 112-30-1
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
330
335
340
345
350
355
360

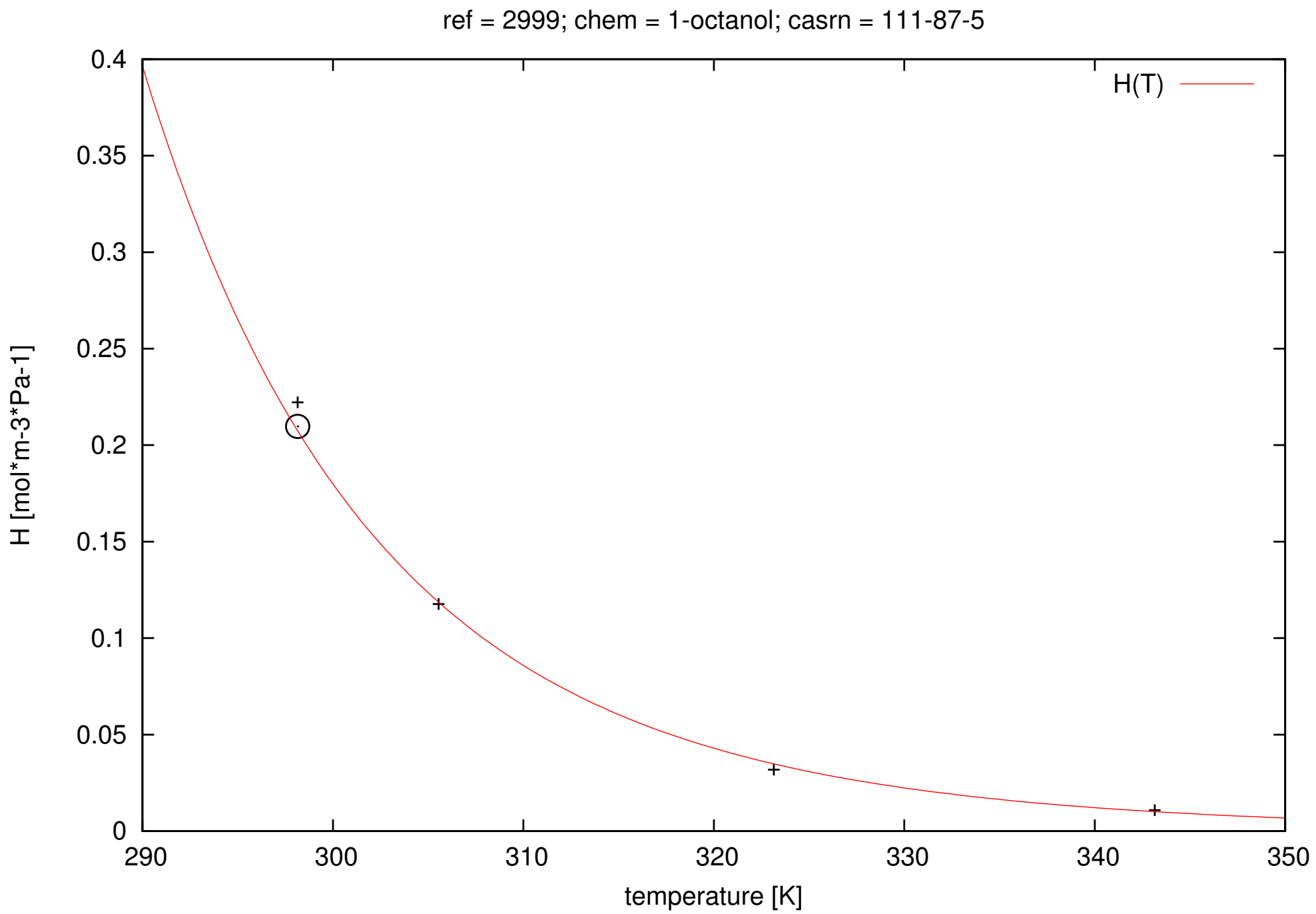

ref = 2997; chem = 1-nonanol; casrn = 143-08-8
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
320
330
340
350
360
370

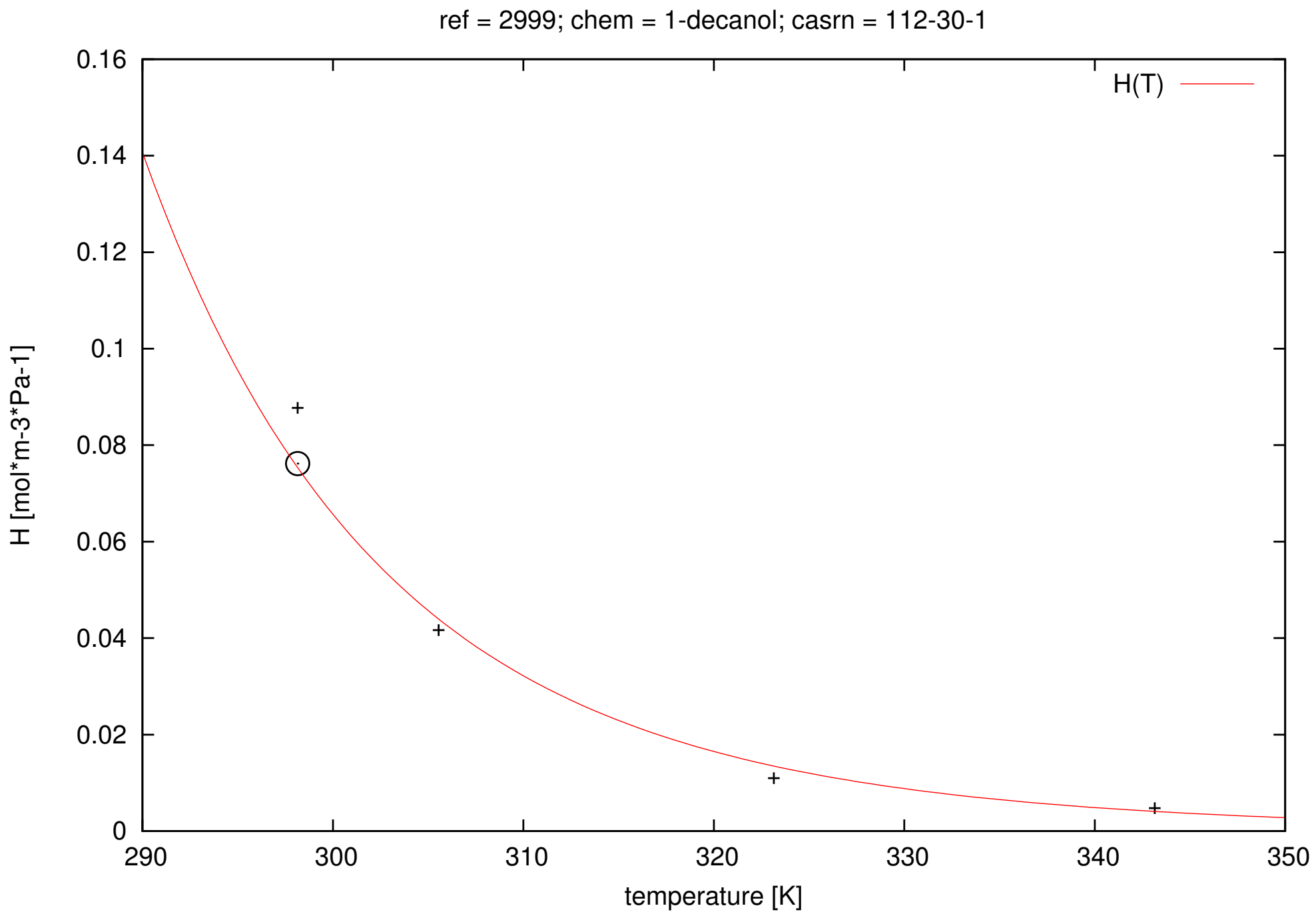

ref = 2997; chem = 1-butanol; casrn = 71-36-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.3
0.25
0.2
0.15
0.1
0.05
0
320
330
340
350
360
370

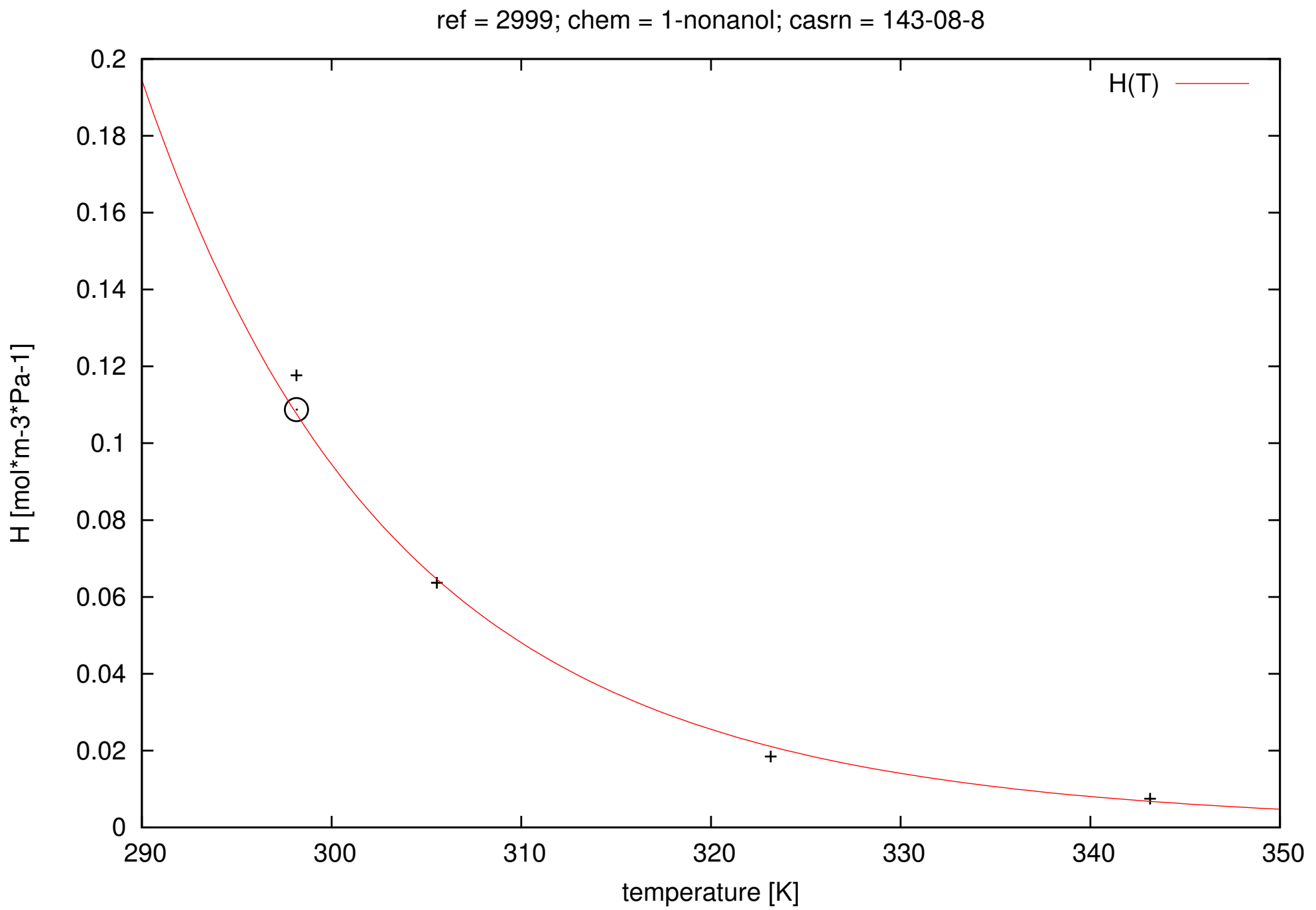

ref = 2997; chem = 1-pentanol; casrn = 71-41-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
320
330
340
350
360
370

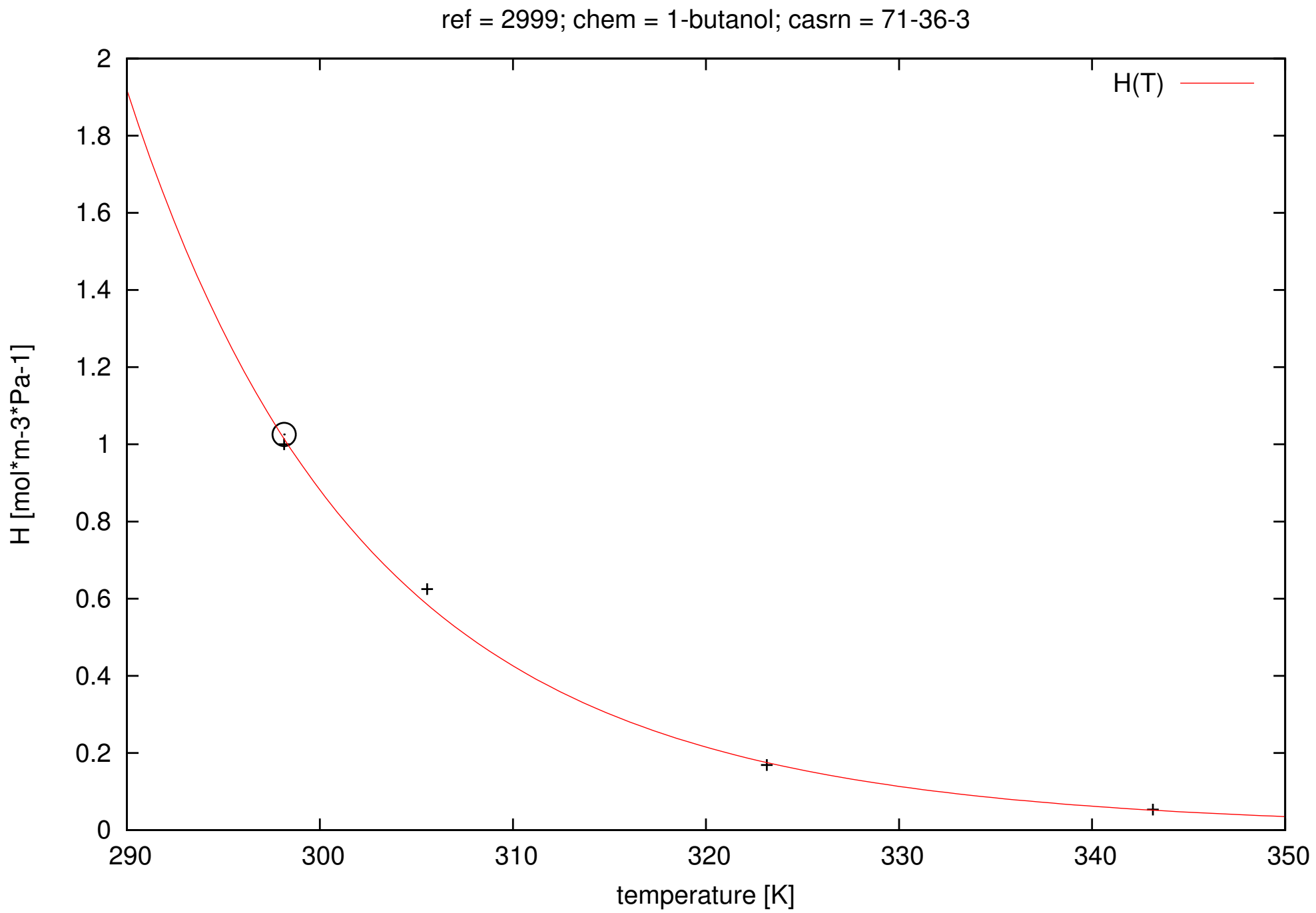

ref = 2999; chem = 1-hexanol; casrn = 111-27-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
1.2
1
0.8
0.6
0.4
0.2
0
290
300
310
320
330
340
350

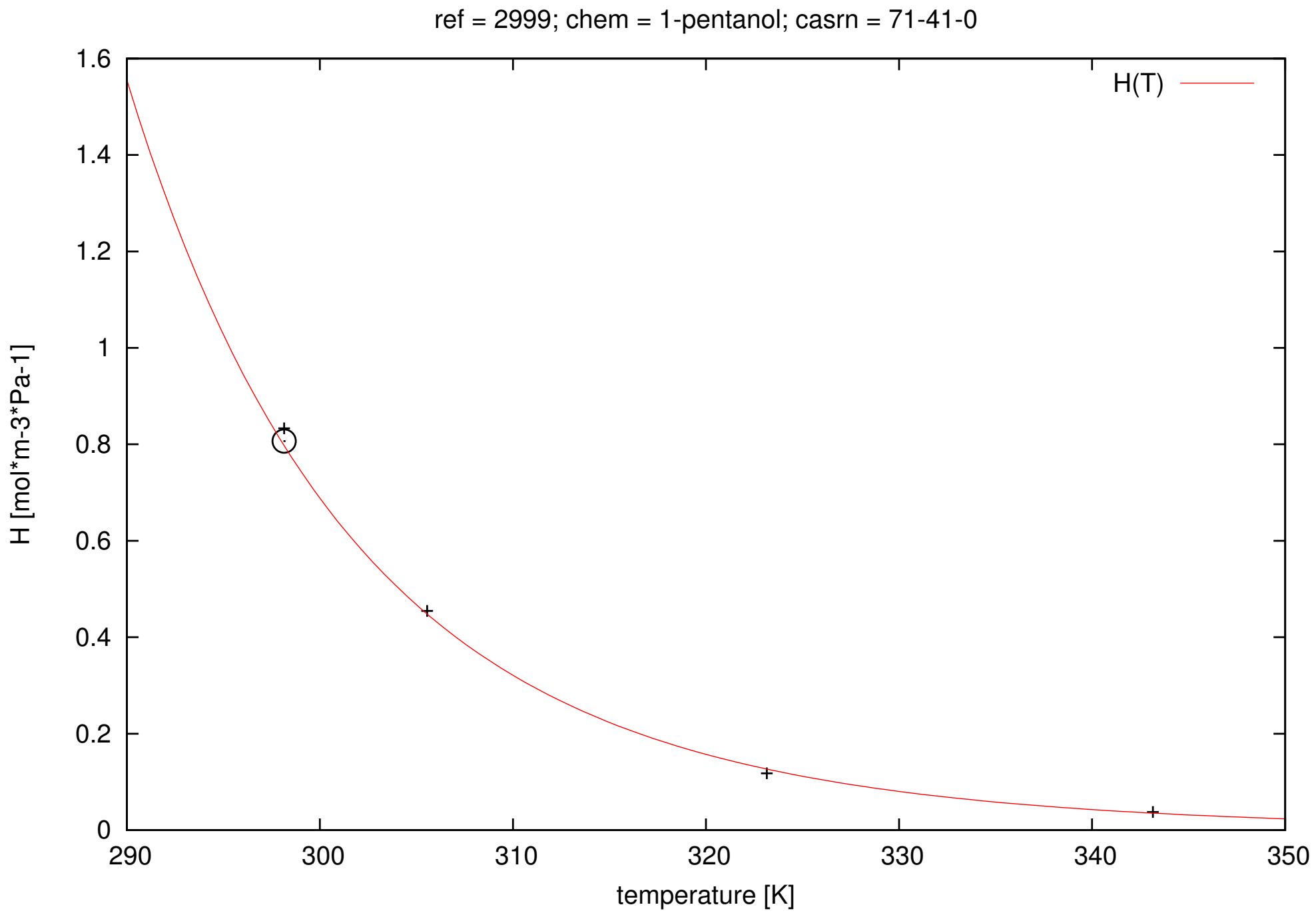

ref = 2999; chem = 1-heptanol; casrn = 111-70-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
290
300
310
320
330
340
350

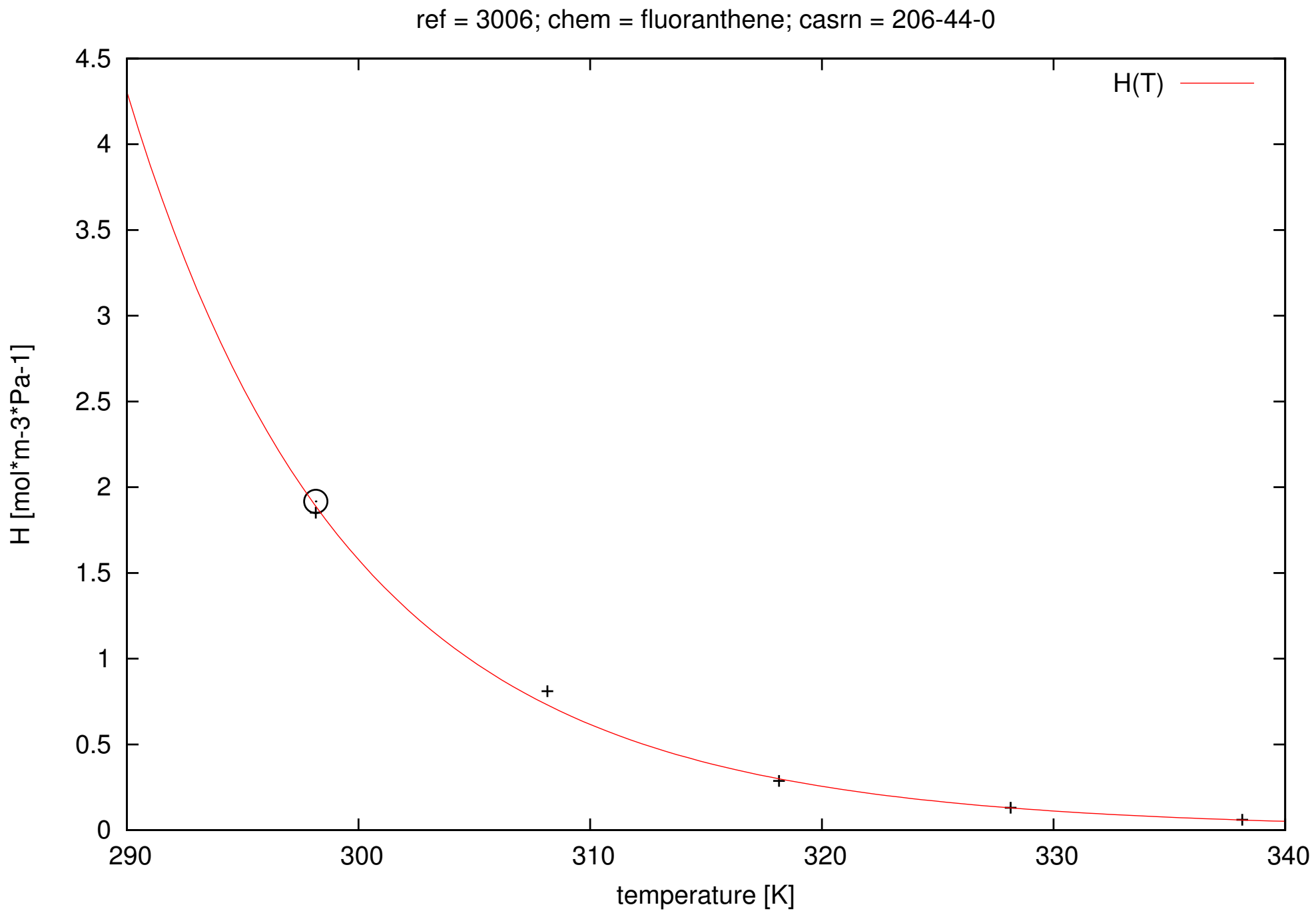

ref = 2999; chem = 1-octanol; casrn = 111-87-5
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
290
300
310
320
330
340
350


ref = 2999; chem = 1-decanol; casrn = 112-30-1
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
290
300
310
320
330
340
350

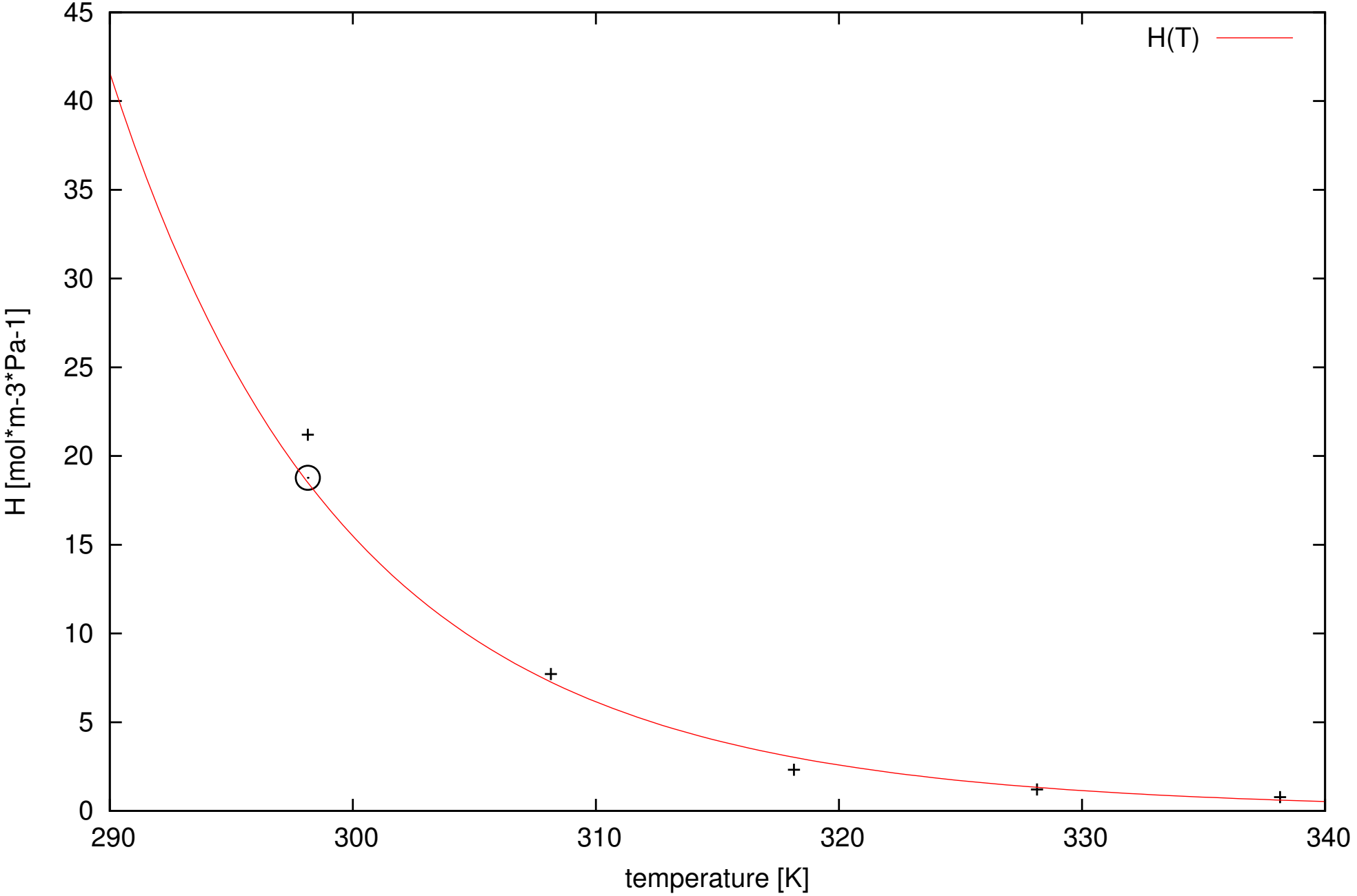

ref = 2999; chem = 1-nonanol; casrn = 143-08-8
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
290
300
310
320
330
340
350

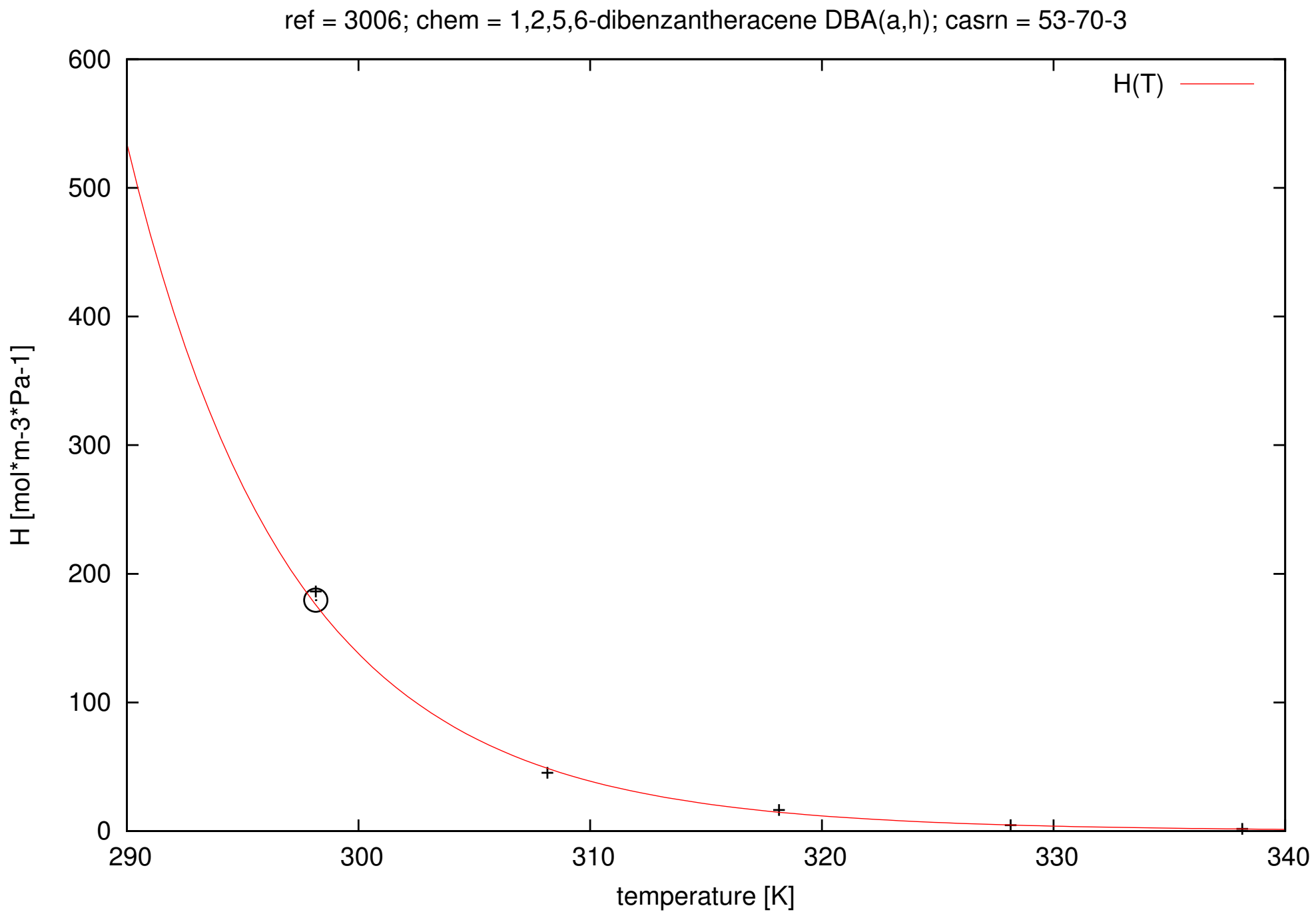

ref = 2999; chem = 1-butanol; casrn = 71-36-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
290
300
310
320
330
340
350

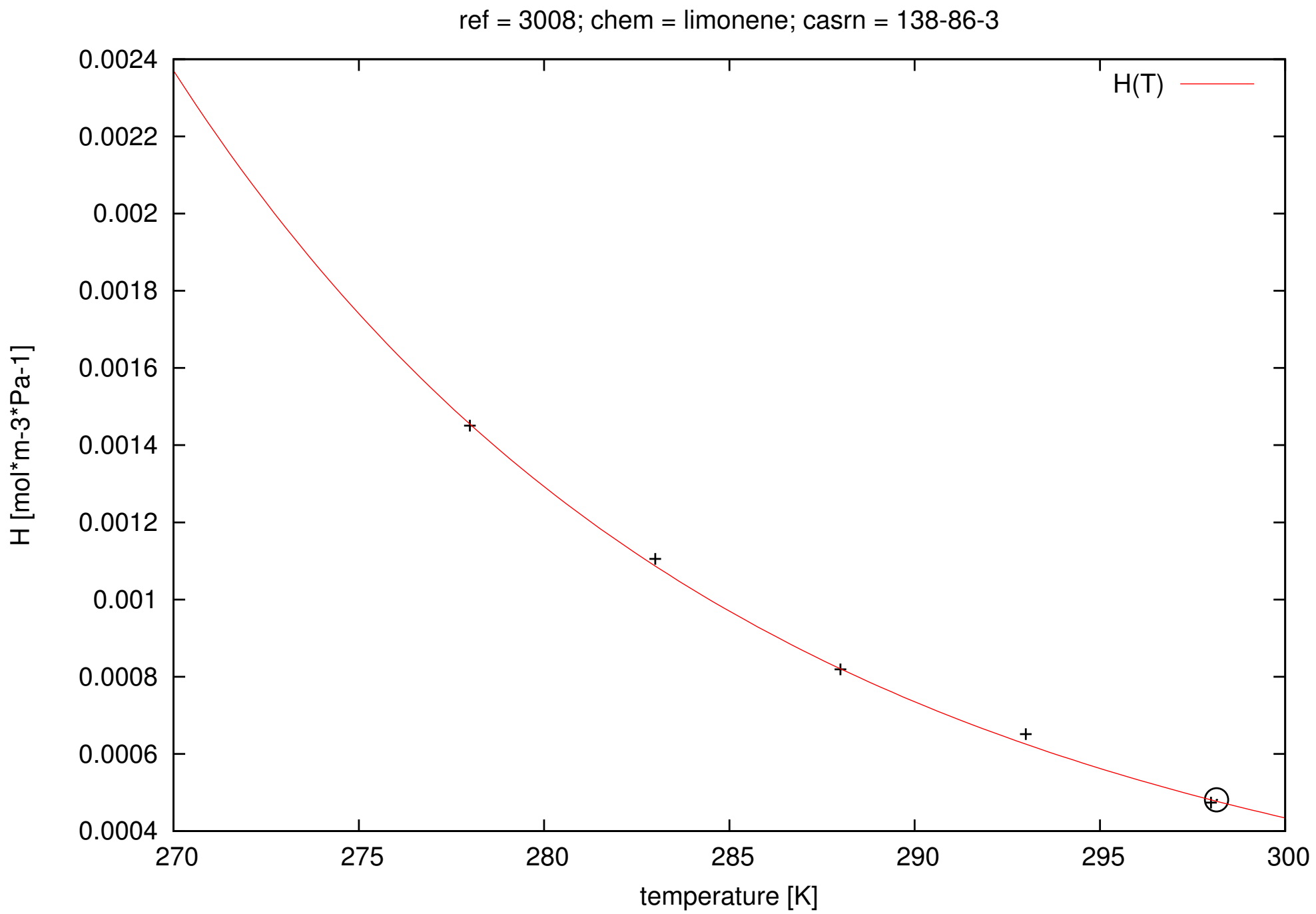

ref = 2999; chem = 1-pentanol; casrn = 71-41-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
290
300
310
320
330
340
350

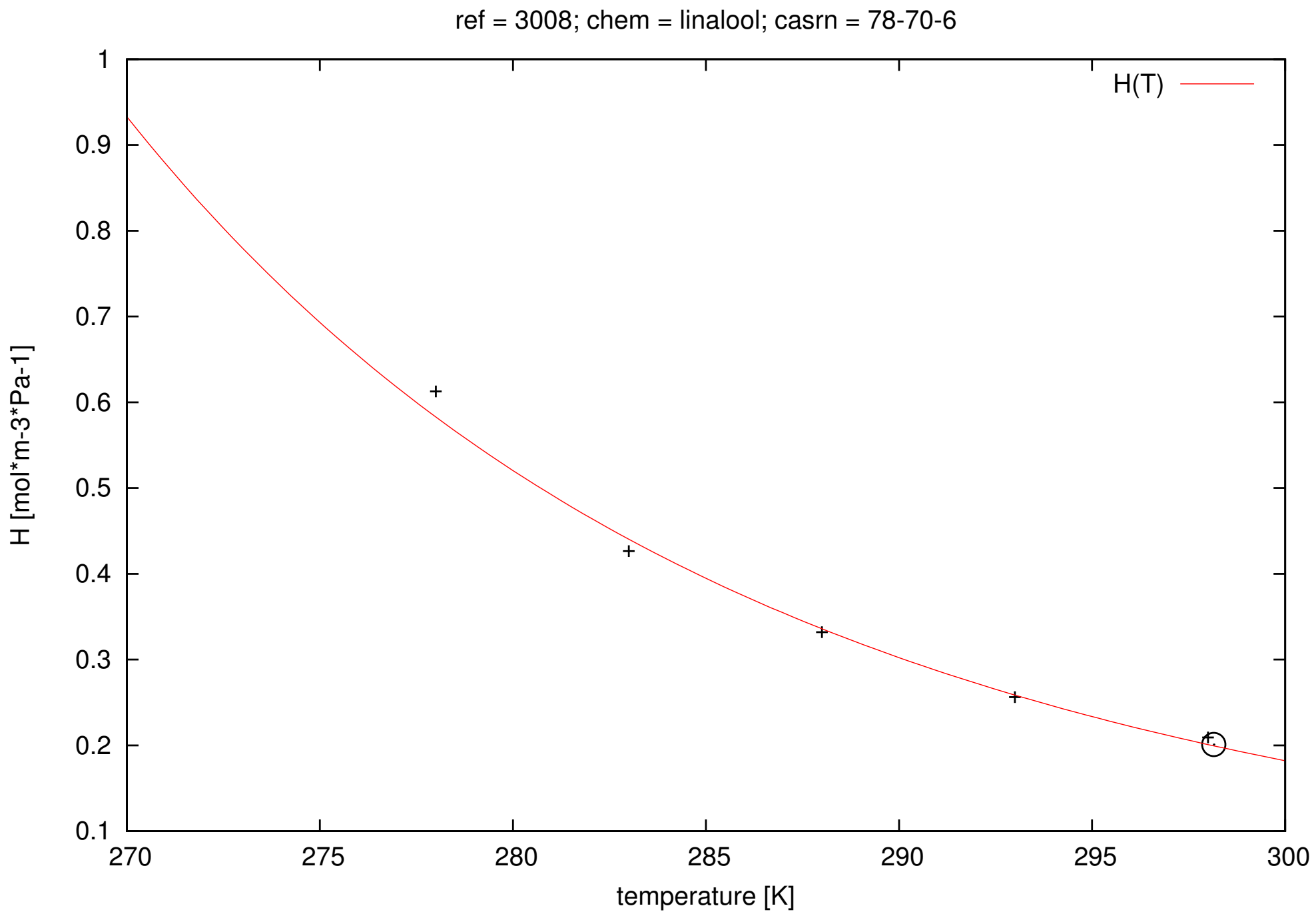

ref = 3006; chem = fluoranthene; casrn = 206-44-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
290
300
310
320
330
340

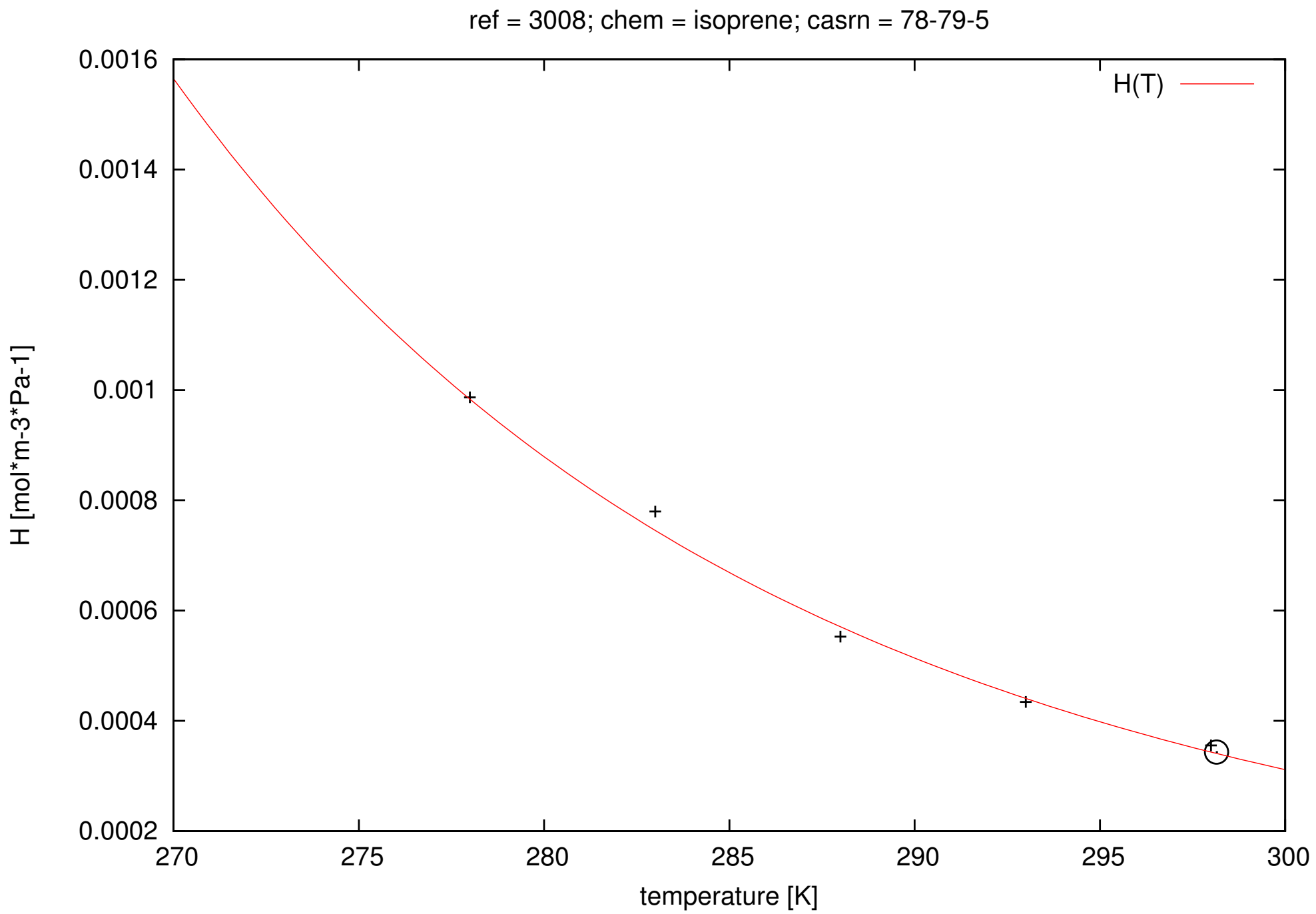
ref = 3006; chem = 1,2,3,4-dibenzantheracene DBA(a,c); casrn = 215-58-7

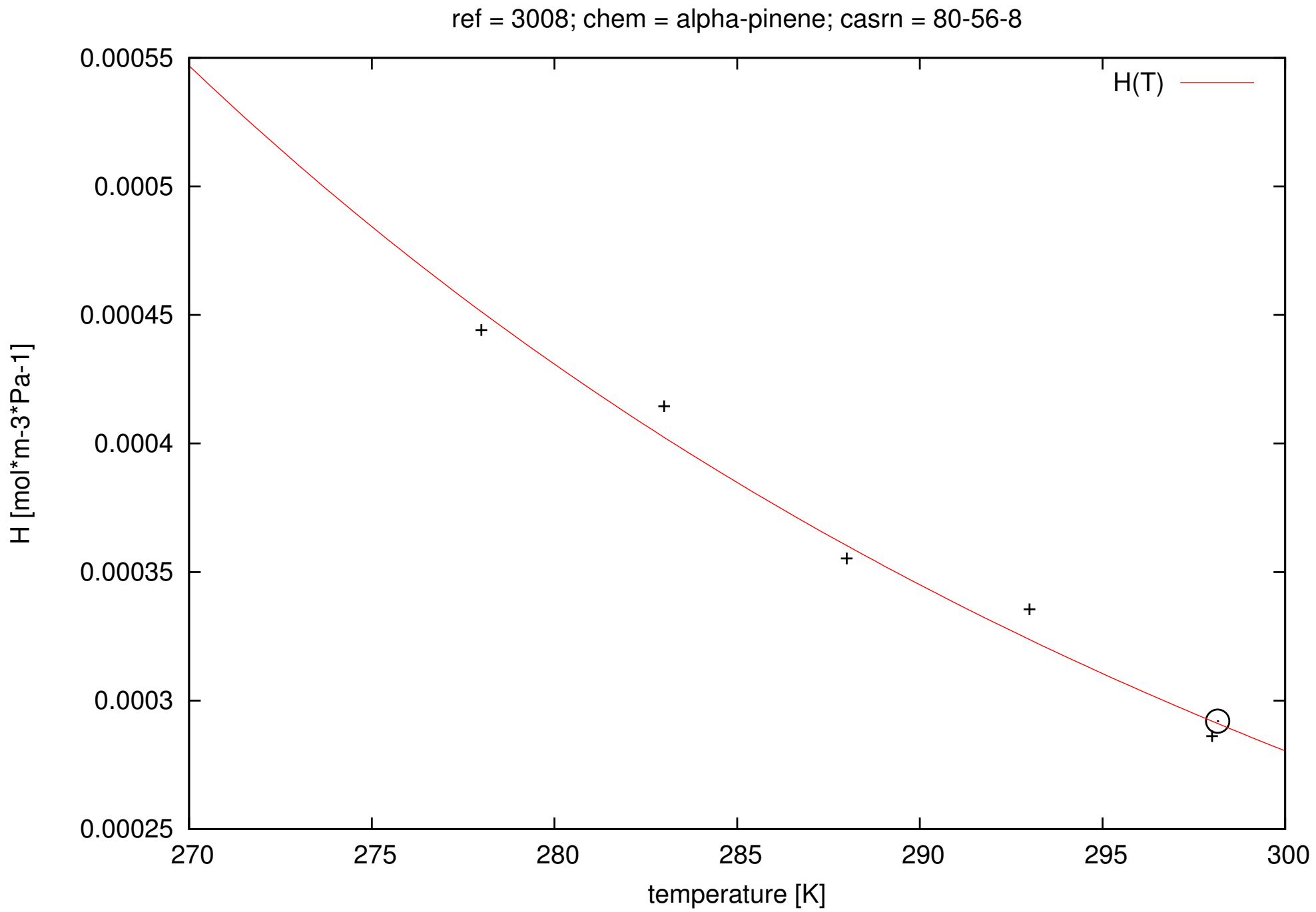


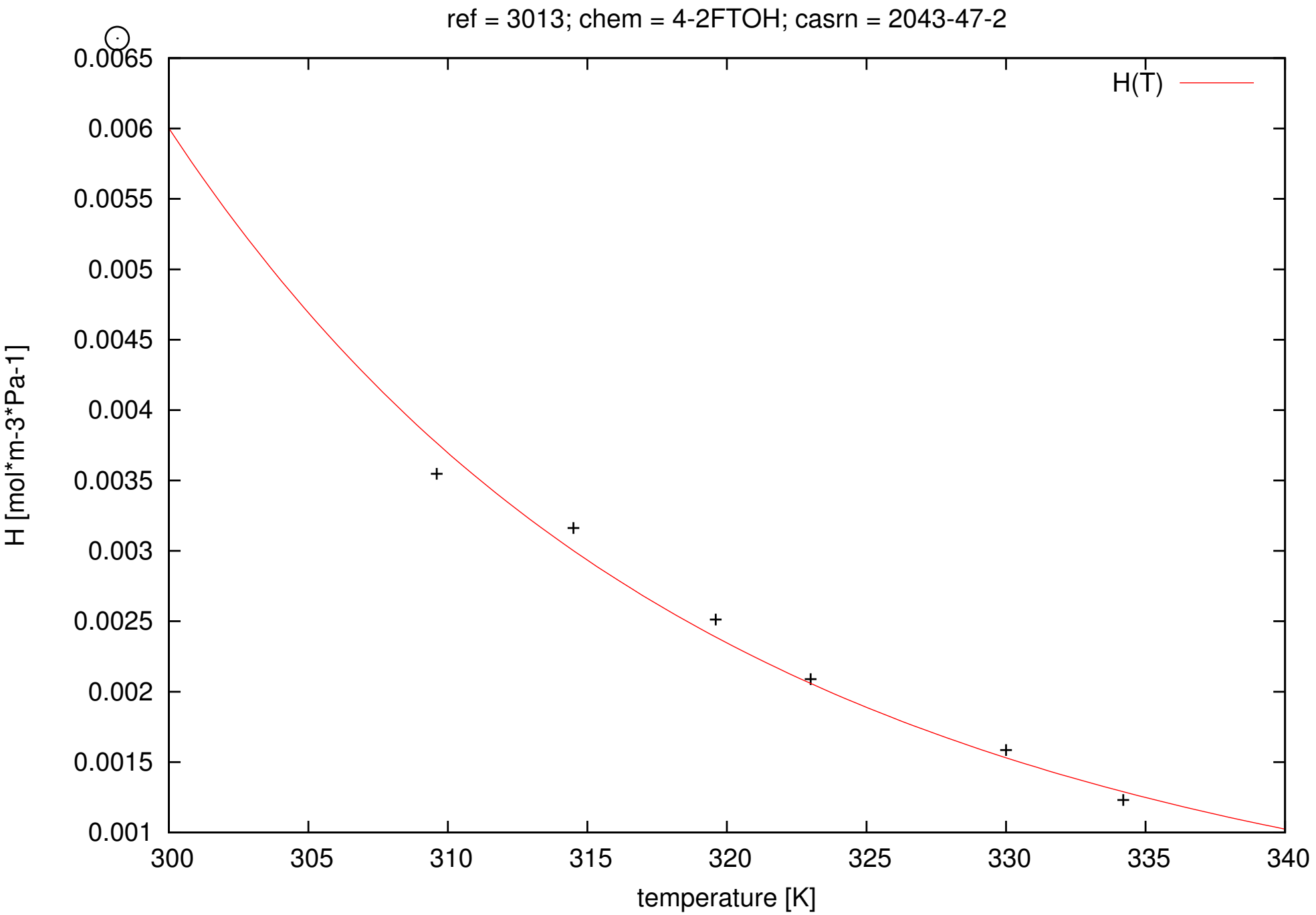

ref = 3006; chem = 1,2,5,6-dibenzantheracene DBA(a,h); casrn = 53-70-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
600
500
400
300
200
100
0
290
300
310
320
330
340

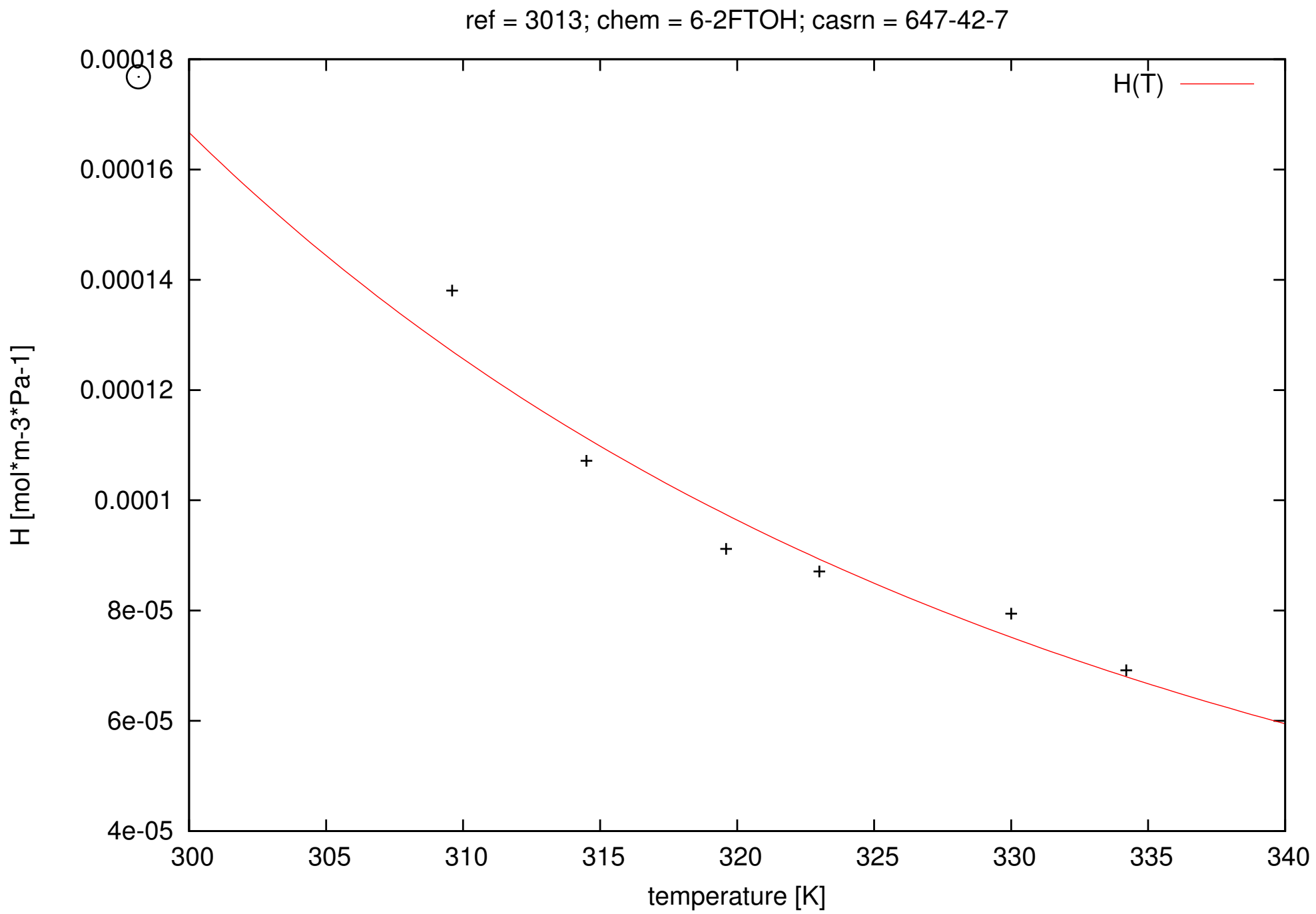

ref = 3008; chem = limonene; casrn = 138-86-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
270
275
280
285
290
295
300

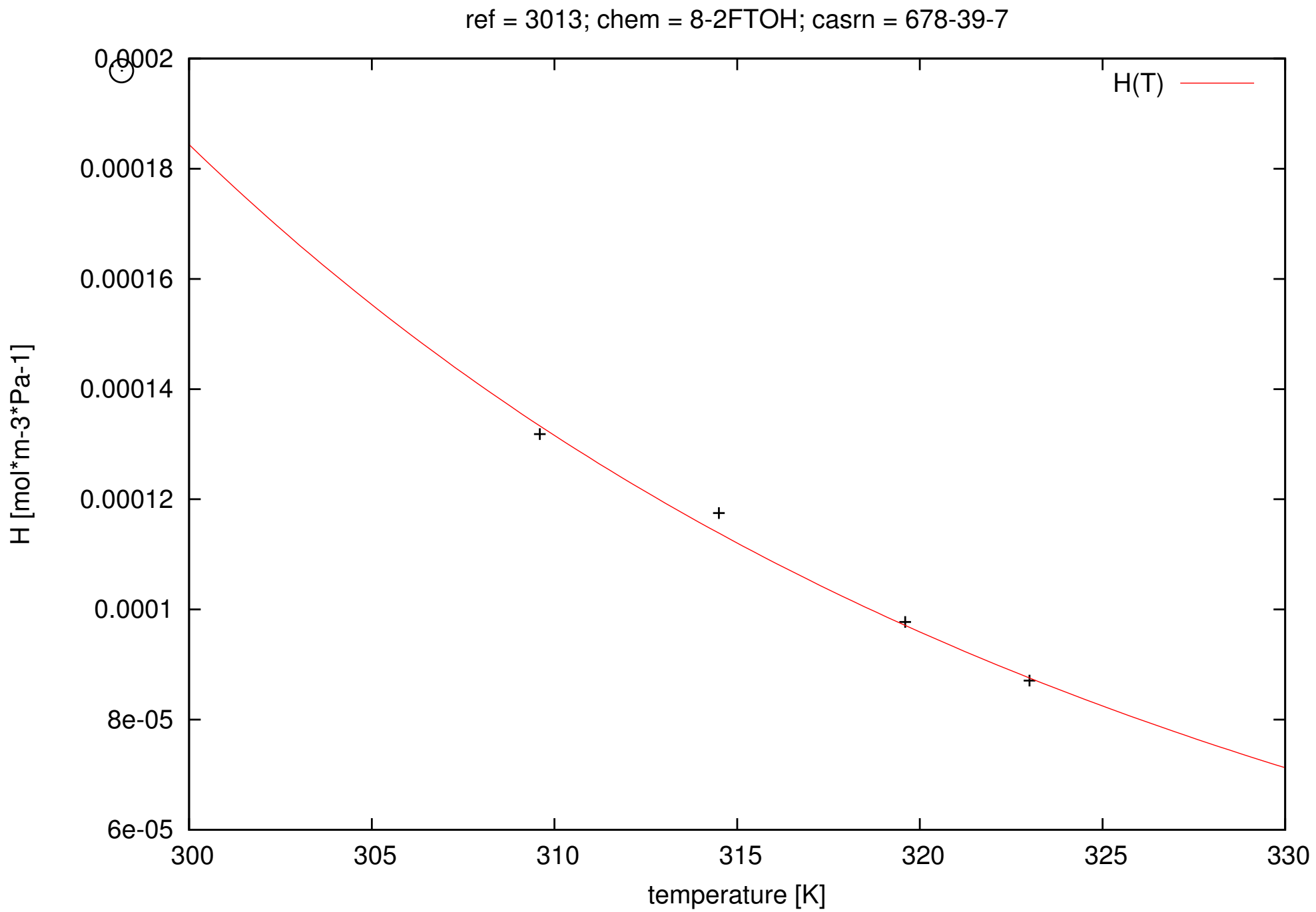

ref = 3008; chem = linalool; casrn = 78-70-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
270
275
280
285
290
295
300

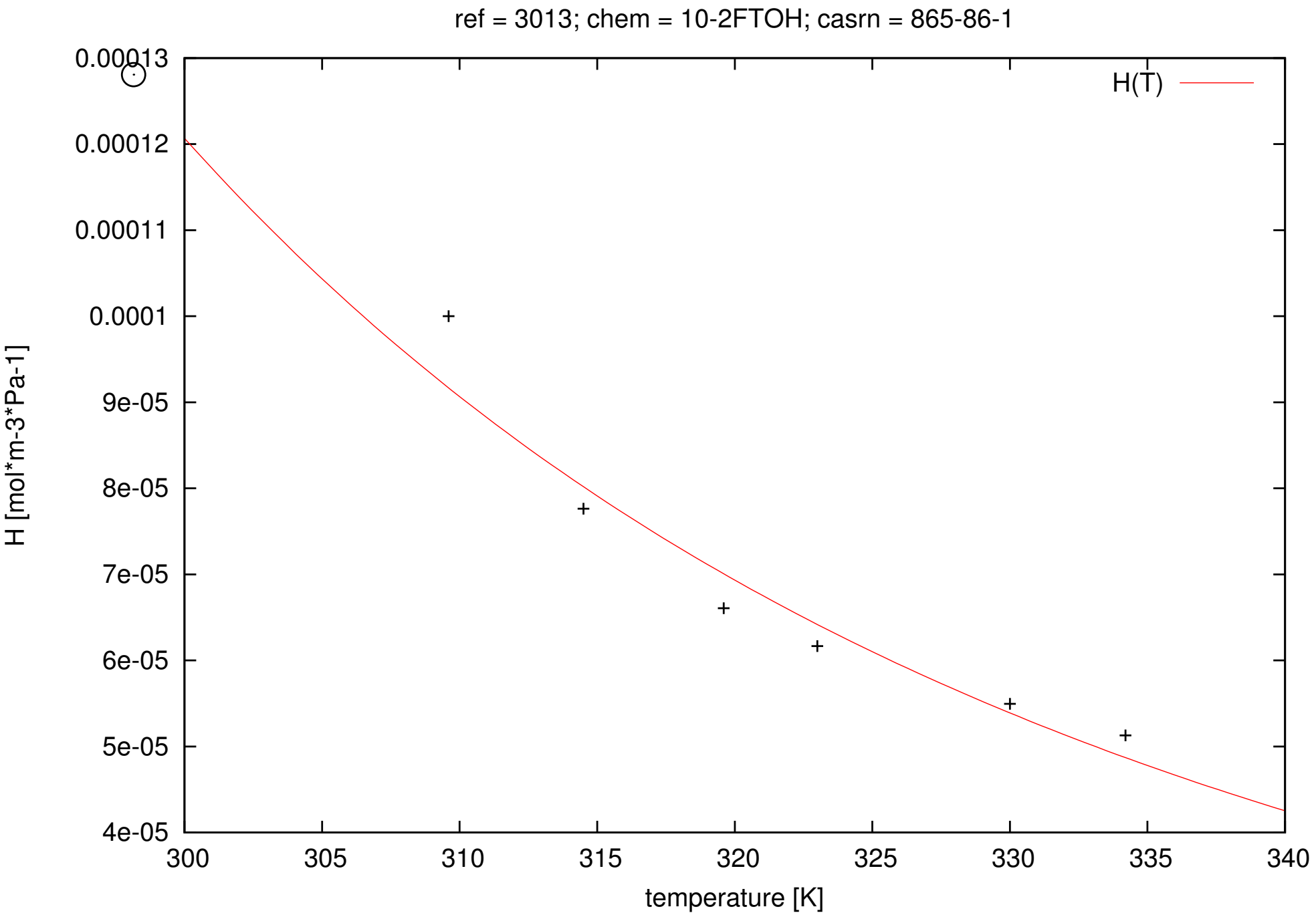

ref = 3008; chem = isoprene; casrn = 78-79-5
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
270
275
280
285
290
295
300

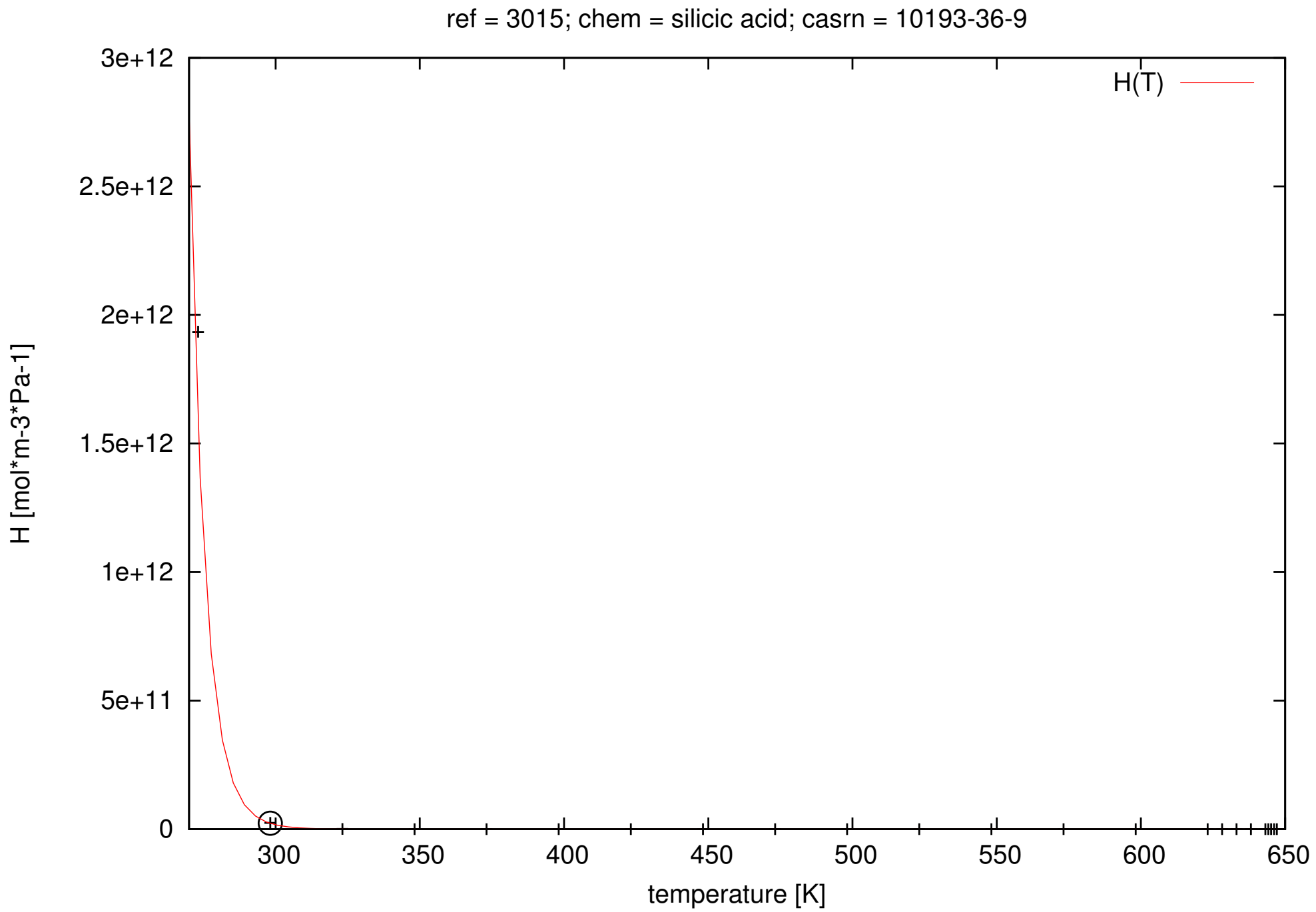

ref = 3008; chem = alpha-pinene; casrn = 80-56-8
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.00055
0.0005
0.00045
0.0004
0.00035
0.0003
0.00025
270
275
280
285
290
295
300

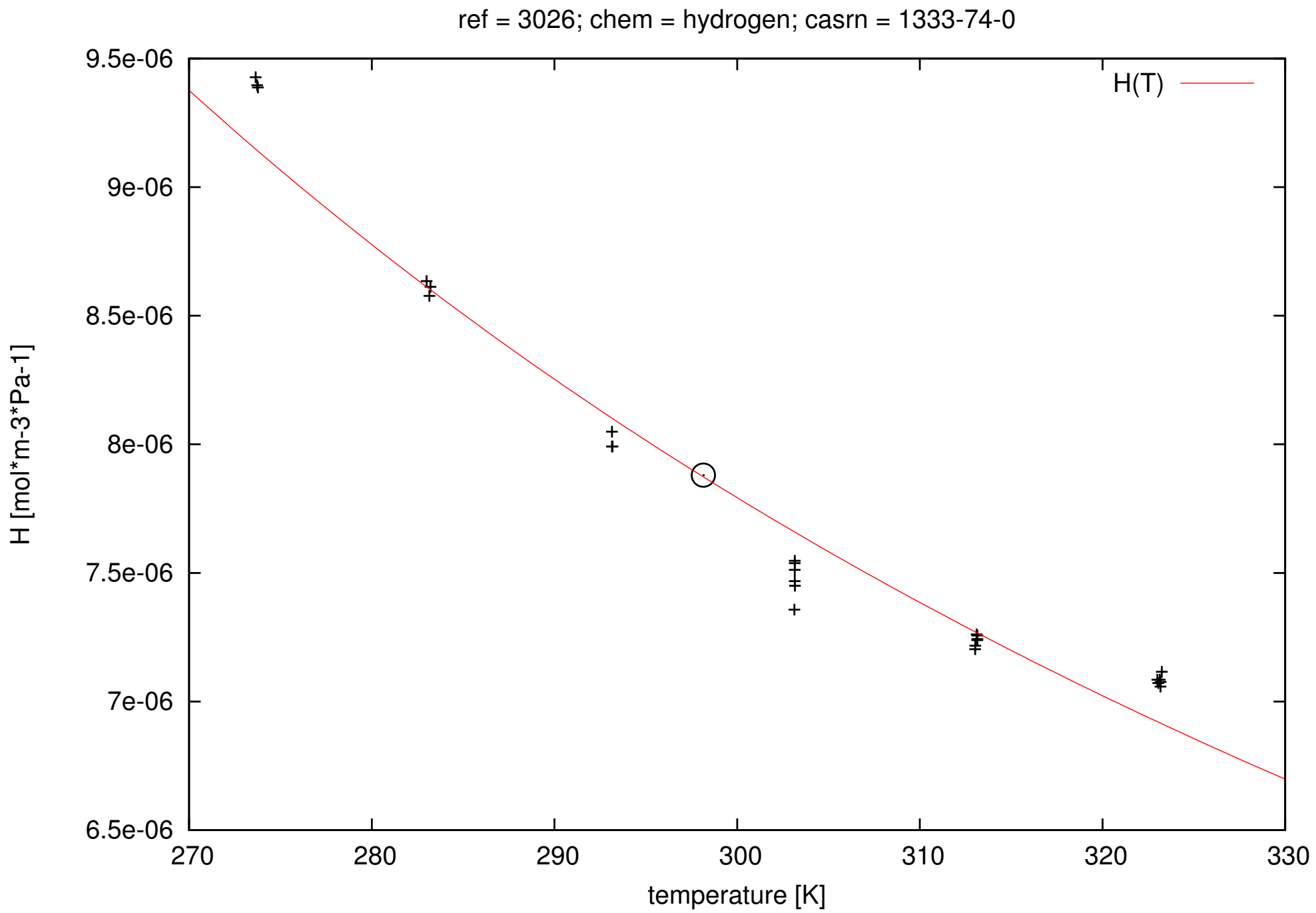

ref = 3013; chem = 4-2FTOH; casrn = 2043-47-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
300
305
310
315
320
325
330
335
340

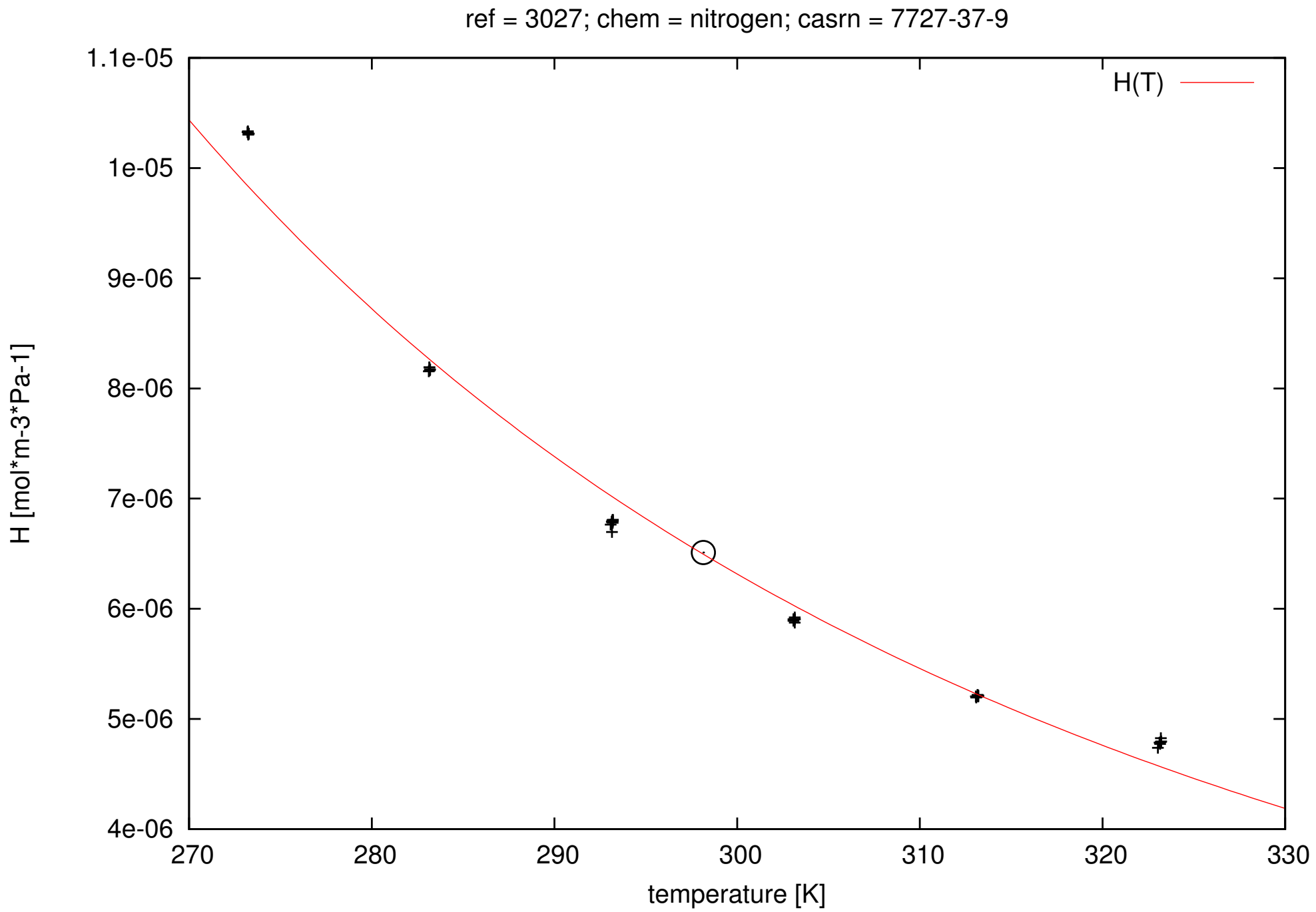

ref = 3013; chem = 6-2FTOH; casrn = 647-42-7
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.00018
0.00016
0.00014
0.00012
0.0001
8e-05
6e-05
4e-05
300
305
310
315
320
325
330
335
340

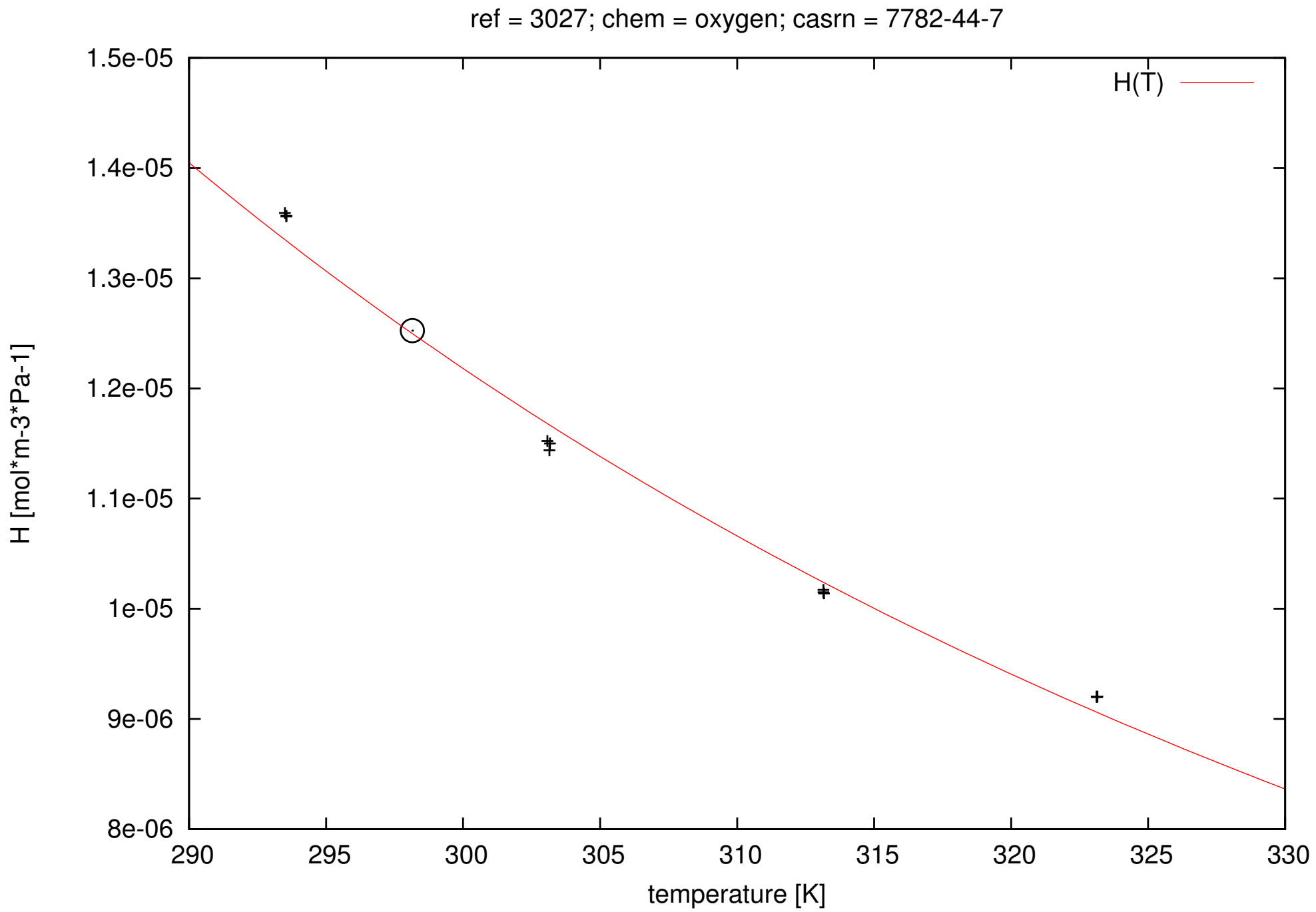

ref = 3013; chem = 8-2FTOH; casrn = 678-39-7
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0002
0.00018
0.00016
0.00014
0.00012
0.0001
8e-05
6e-05
300
305
310
315
320
325
330

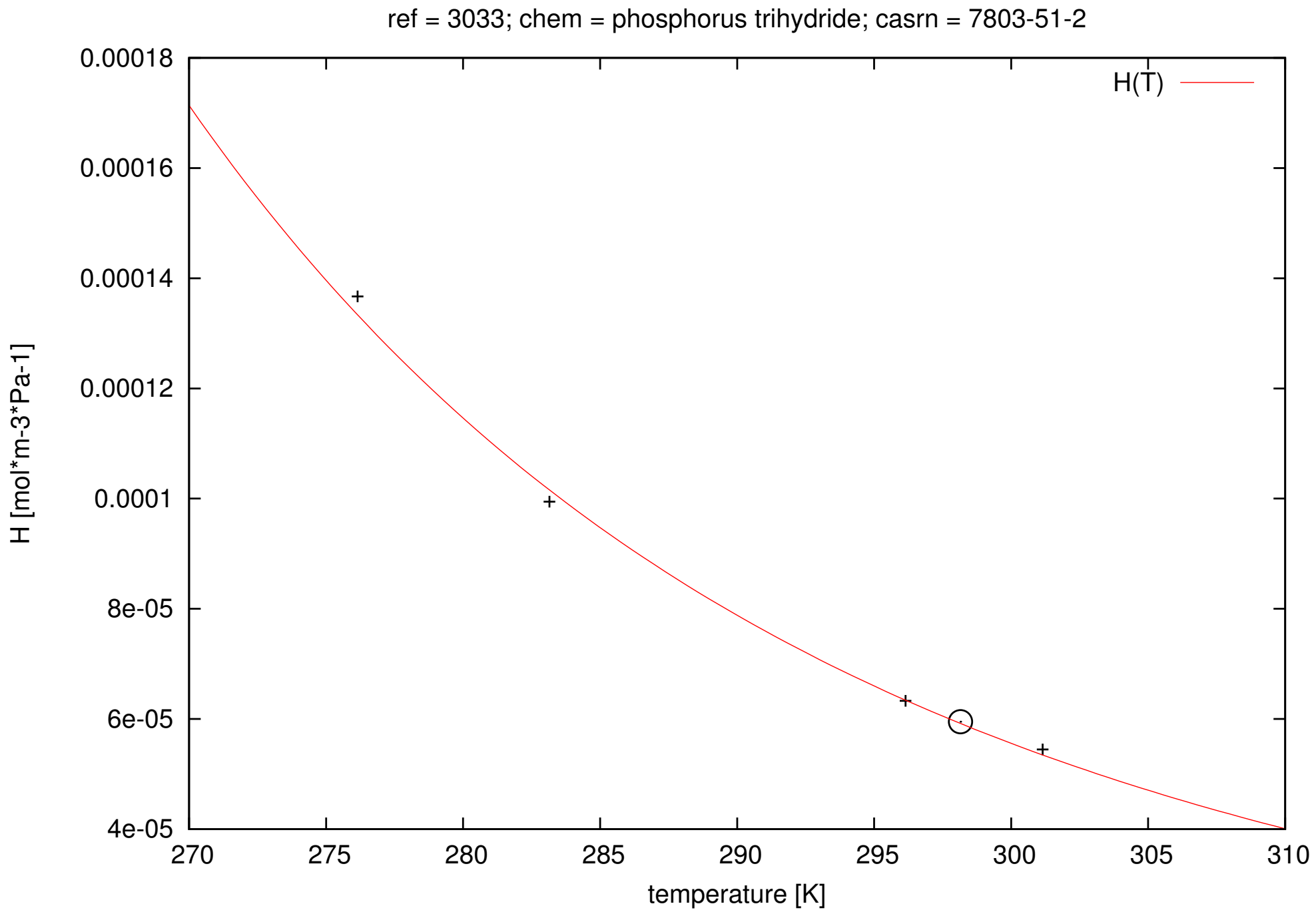

ref = 3013; chem = 10-2FTOH; casrn = 865-86-1
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.00013
0.00012
0.00011
0.0001
9e-05
8e-05
7e-05
6e-05
5e-05
4e-05
300
305
310
315
320
325
330
335
340

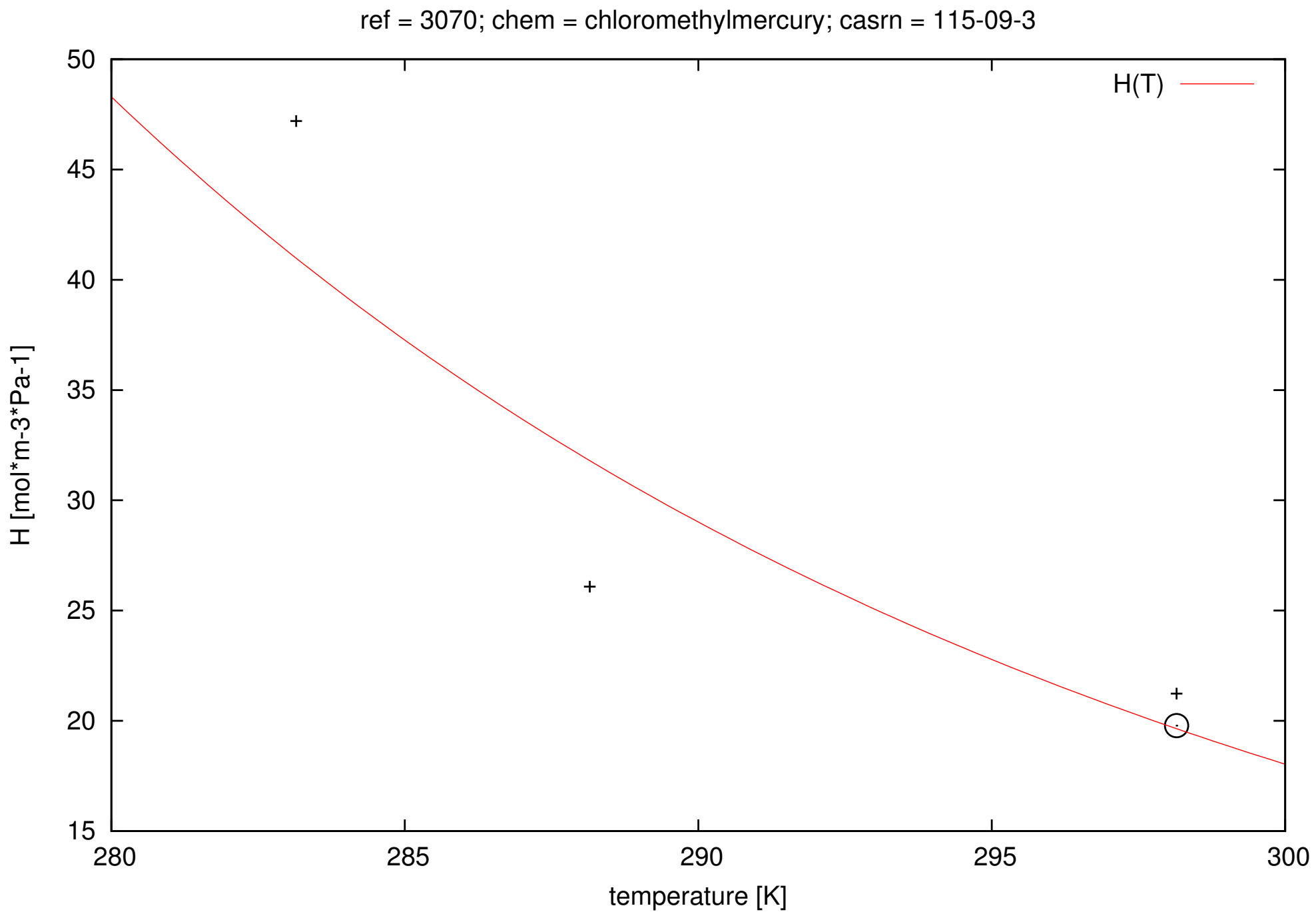

ref = 3015; chem = silicic acid; casrn = 10193-36-9
H(T)
H [mol*m-3*Pa-1]
temperature [K]
3e+12
2.5e+12
2e+12
1.5e+12
1e+12
5e+11
0
300
350
400
450
500
550
600
650

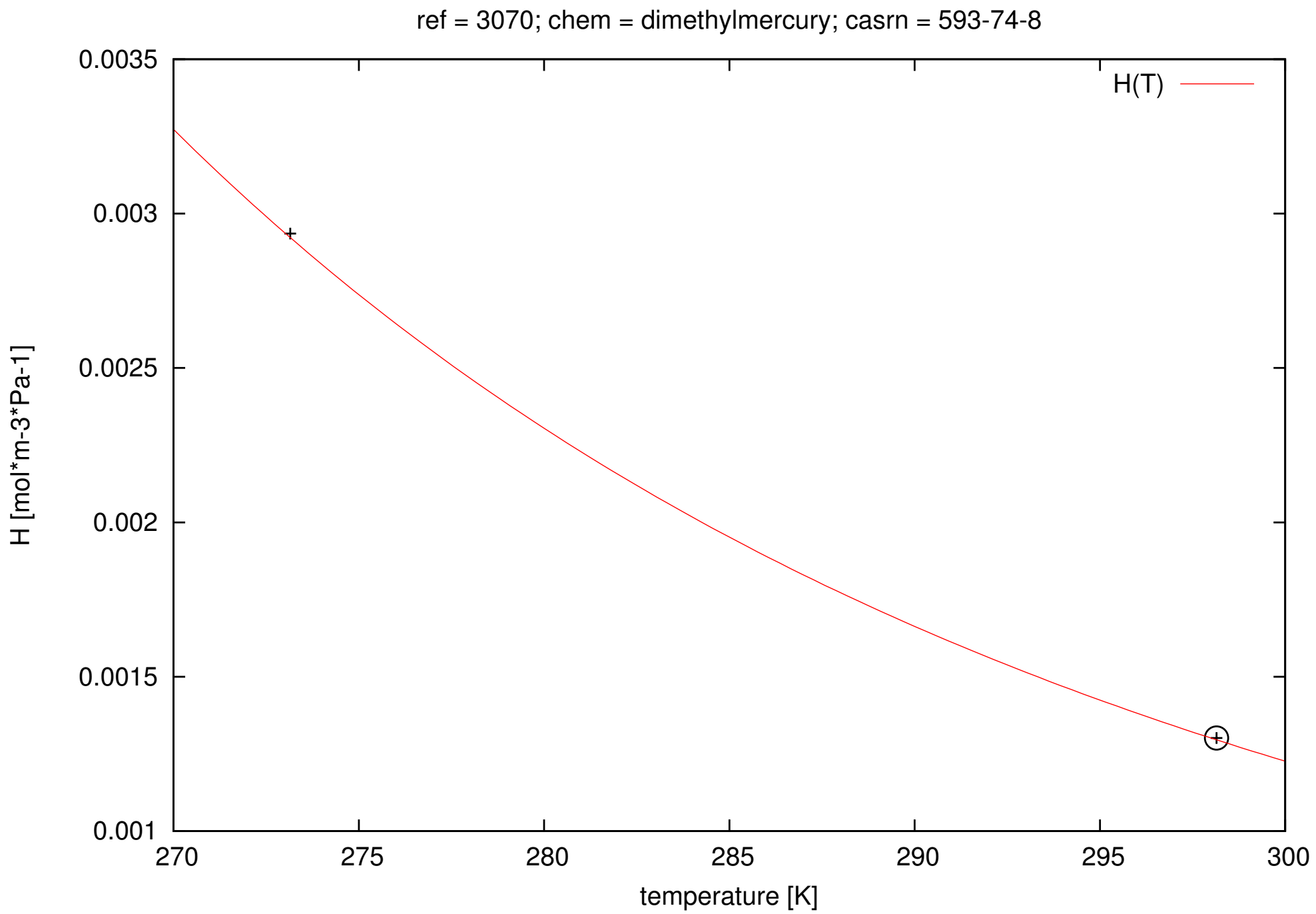

ref = 3026; chem = hydrogen; casrn = 1333-74-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
9.5e-06
9e-06
8.5e-06
8e-06
7.5e-06
7e-06
6.5e-06
270
280
290
300
310
320
330

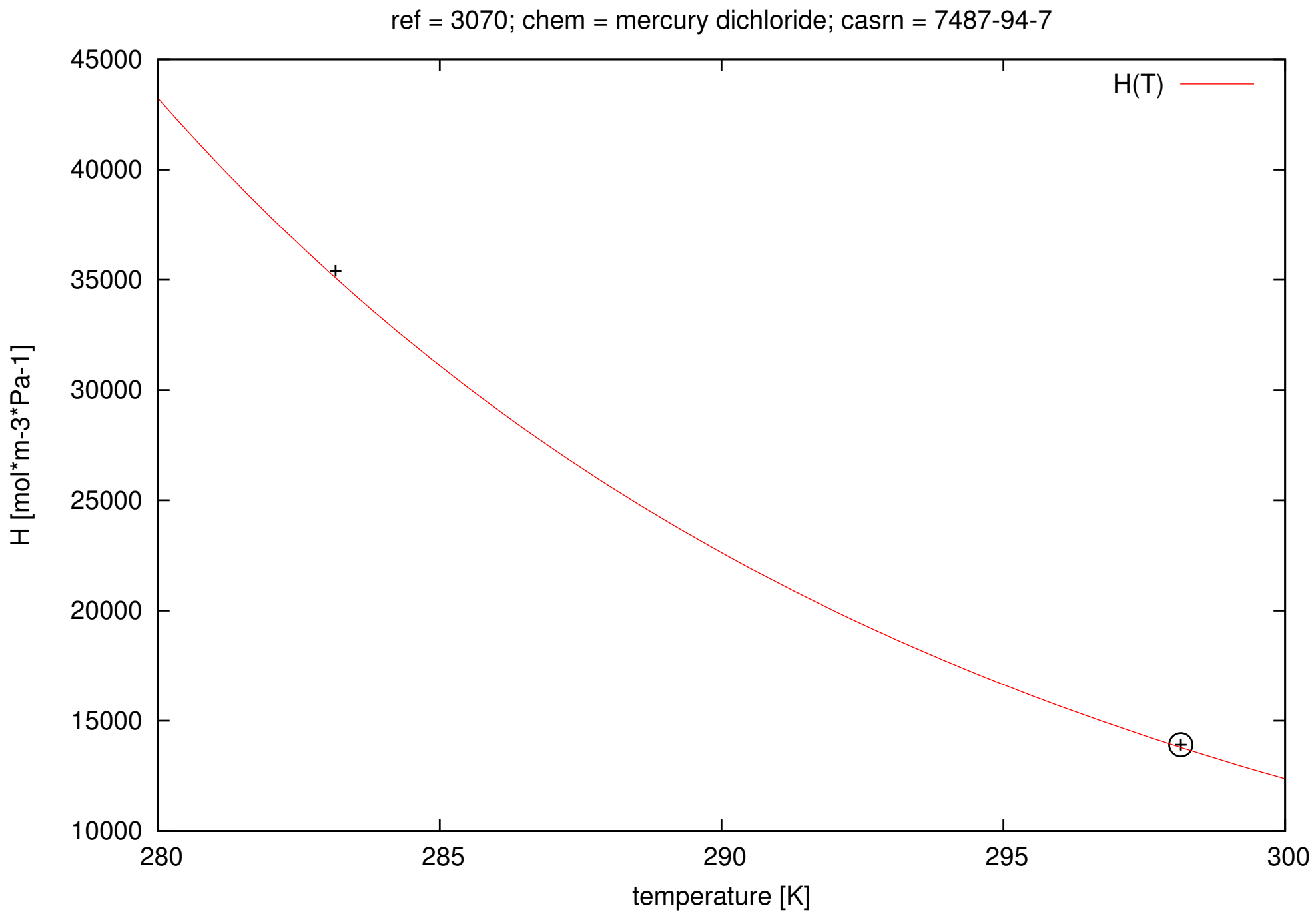

ref = 3027; chem = nitrogen; casrn = 7727-37-9
H(T)
H [mol*m-3*Pa-1]
temperature [K]
1.1e-05
1e-05
9e-06
8e-06
7e-06
6e-06
5e-06
4e-06
270
280
290
300
310
320
330

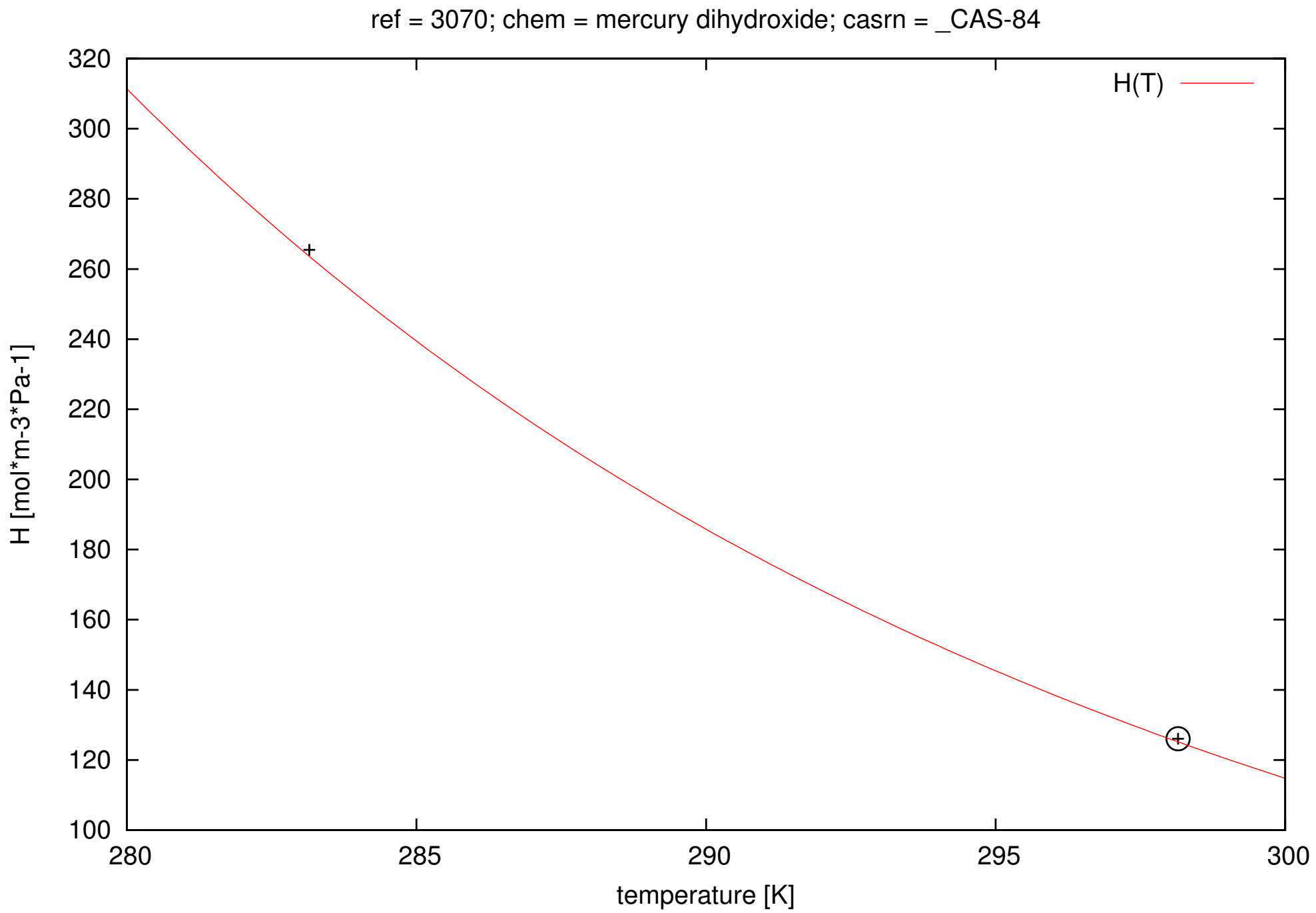

ref = 3027; chem = oxygen; casrn = 7782-44-7
H(T)
H [mol*m-3*Pa-1]
temperature [K]
1.5e-05
1.4e-05
1.3e-05
1.2e-05
1.1e-05
1e-05
9e-06
8e-06
290
295
300
305
310
315
320
325
330

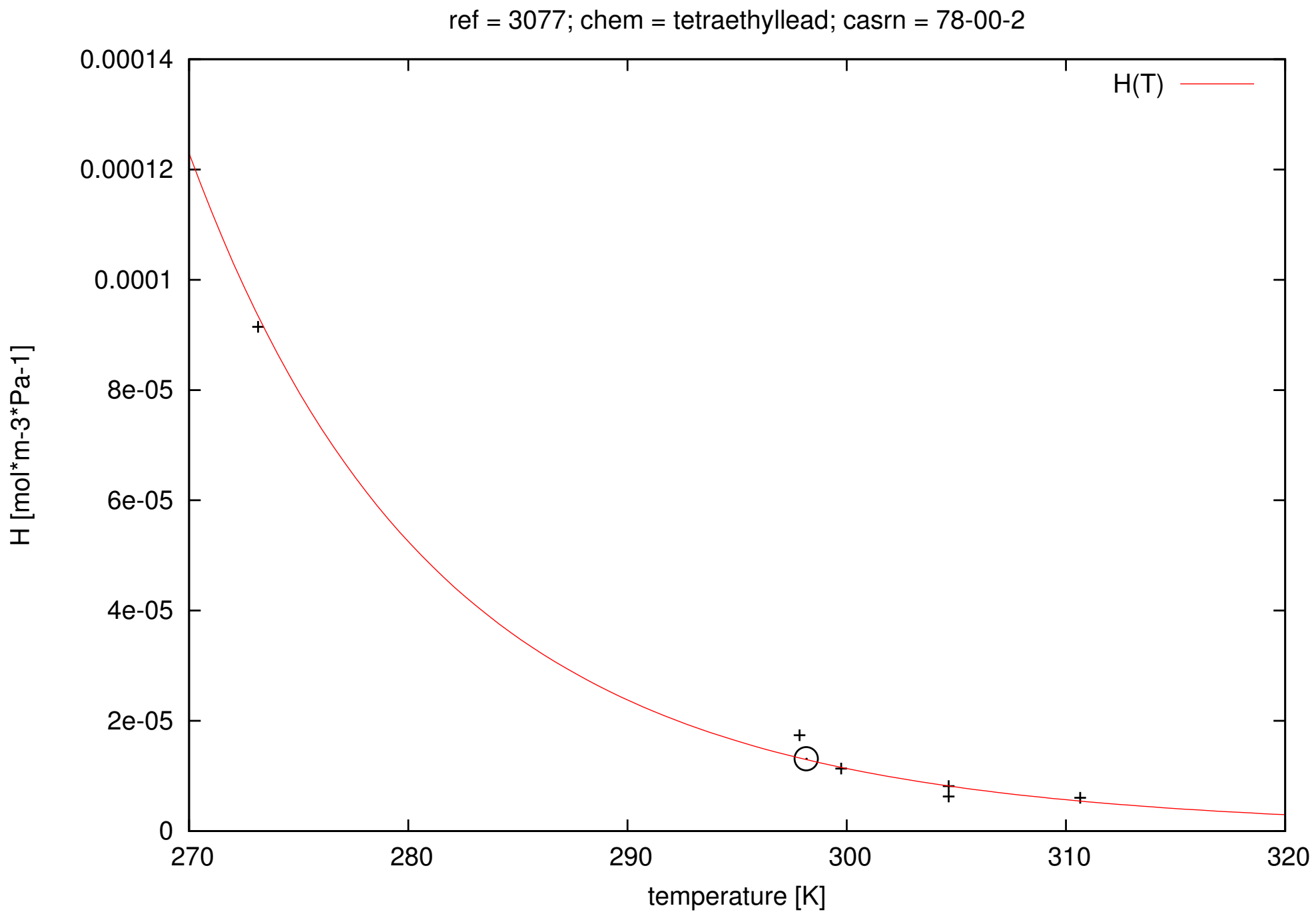

ref = 3033; chem = phosphorus trihydride; casrn = 7803-51-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.00018
0.00016
0.00014
0.00012
0.0001
8e-05
6e-05
4e-05
270
275
280
285
290
295
300
305
310

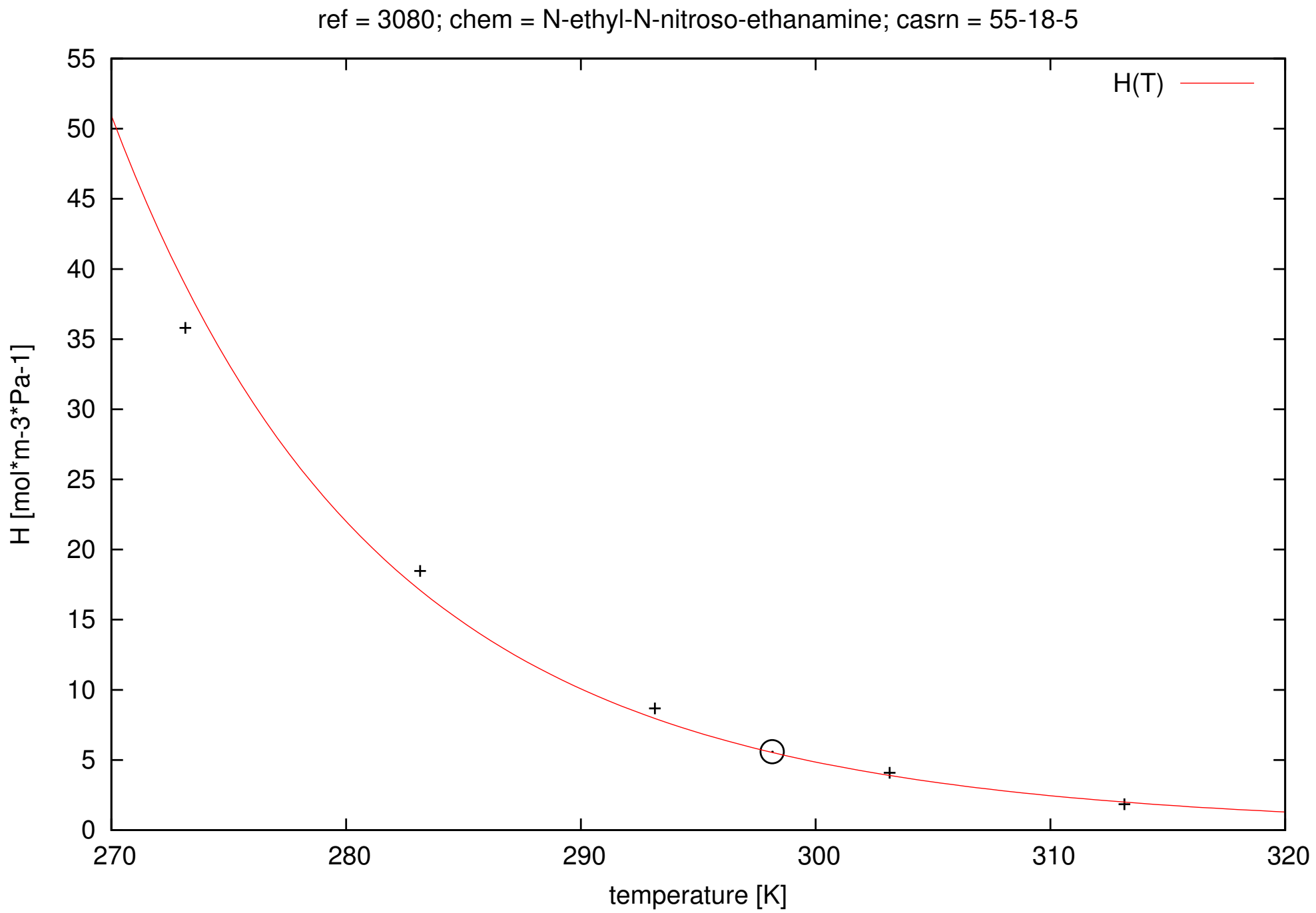

ref = 3070; chem = chloromethylmercury; casrn = 115-09-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
50
45
40
35
30
25
20
15
280
285
290
295
300

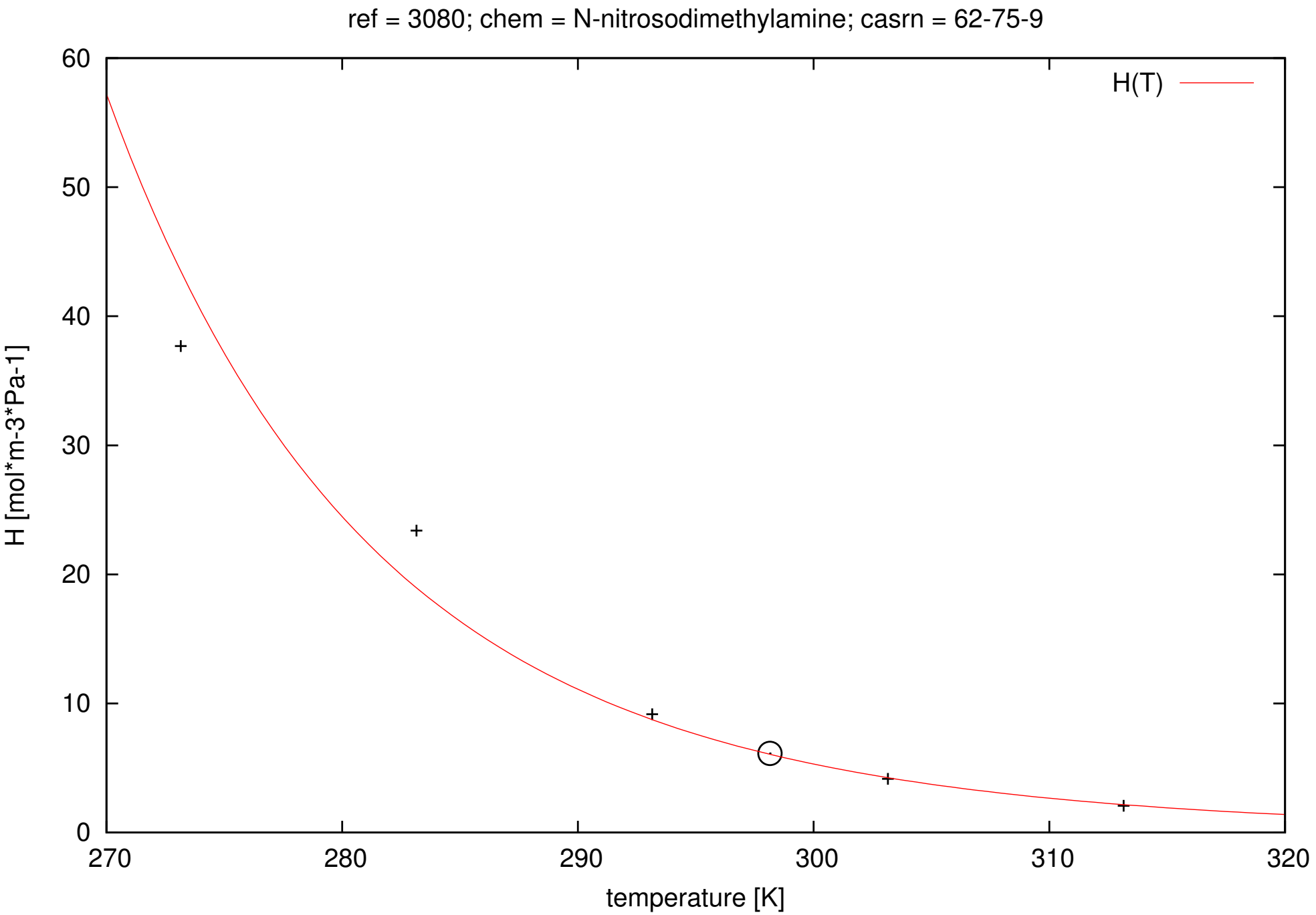

ref = 3070; chem = dimethylmercury; casrn = 593-74-8
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0035
0.003
0.0025
0.002
0.0015
0.001
270
275
280
285
290
295
300

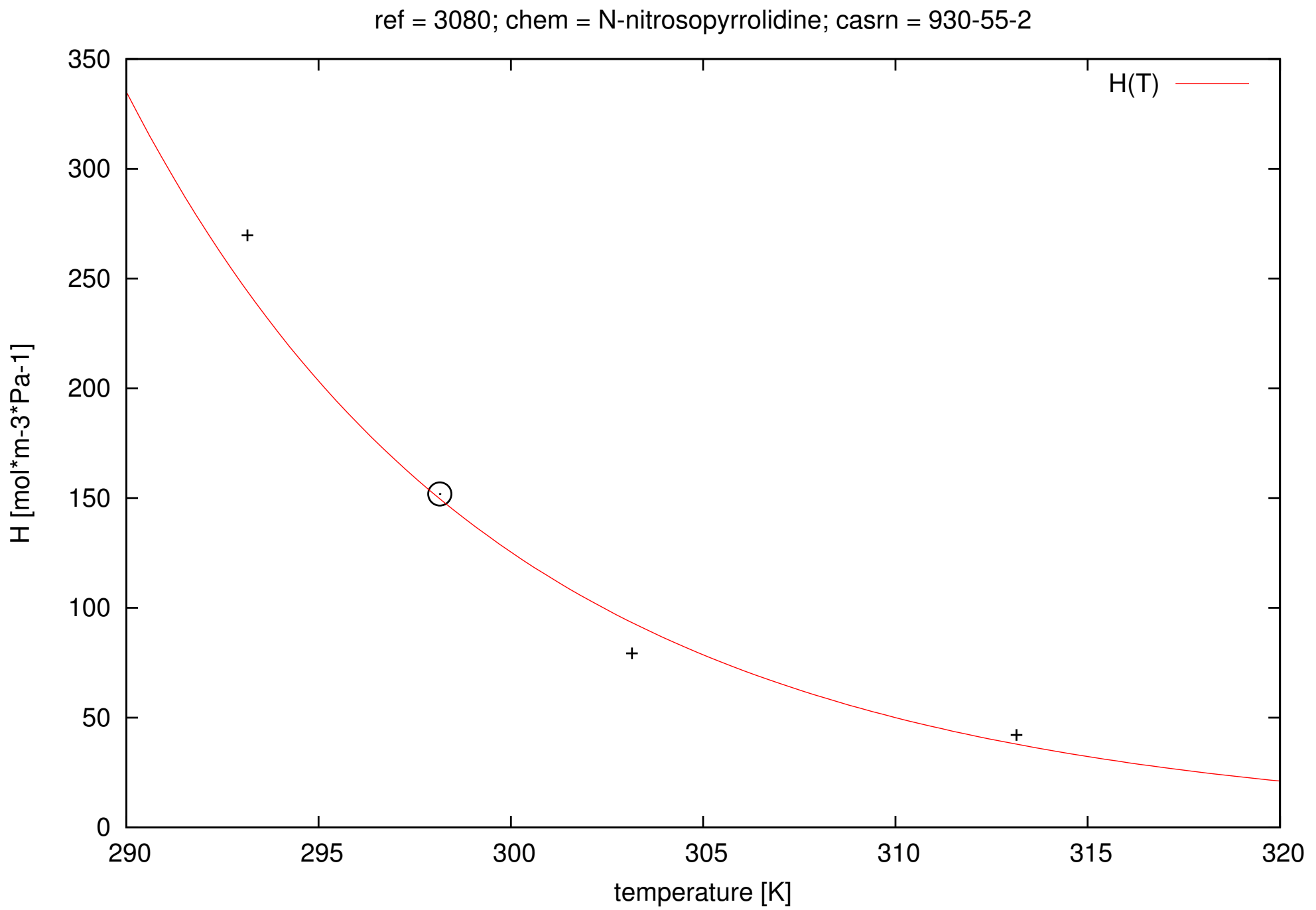

ref = 3070; chem = mercury dichloride; casrn = 7487-94-7
H(T)
H [mol*m-3*Pa-1]
temperature [K]
45000
40000
35000
30000
25000
20000
15000
10000
280
285
290
295
300

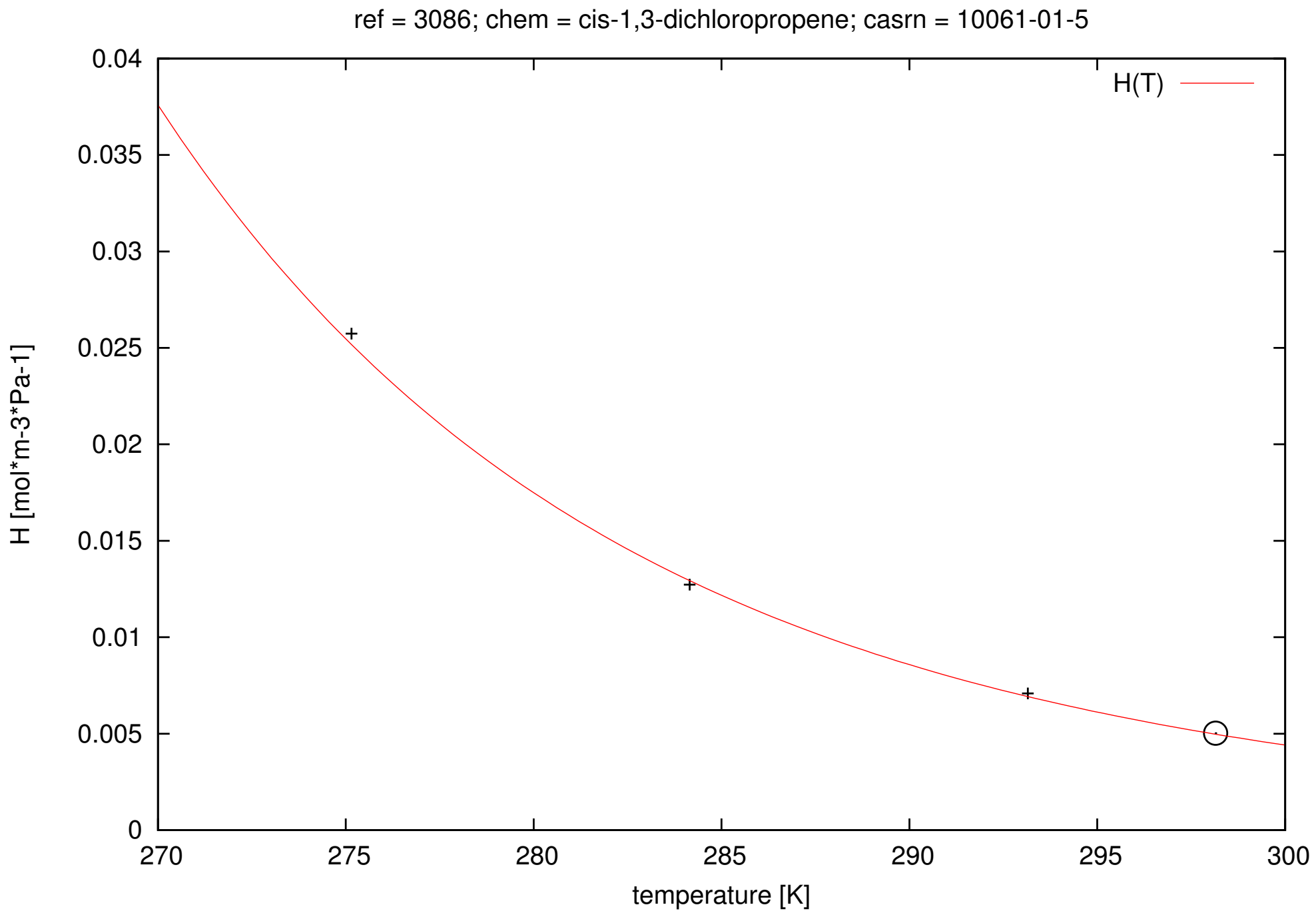

ref = 3070; chem = mercury dihydroxide; casrn = _CAS-84
H(T)
H [mol*m-3*Pa-1]
temperature [K]
320
300
280
260
240
220
200
180
160
140
120
100
280
285
290
295
300

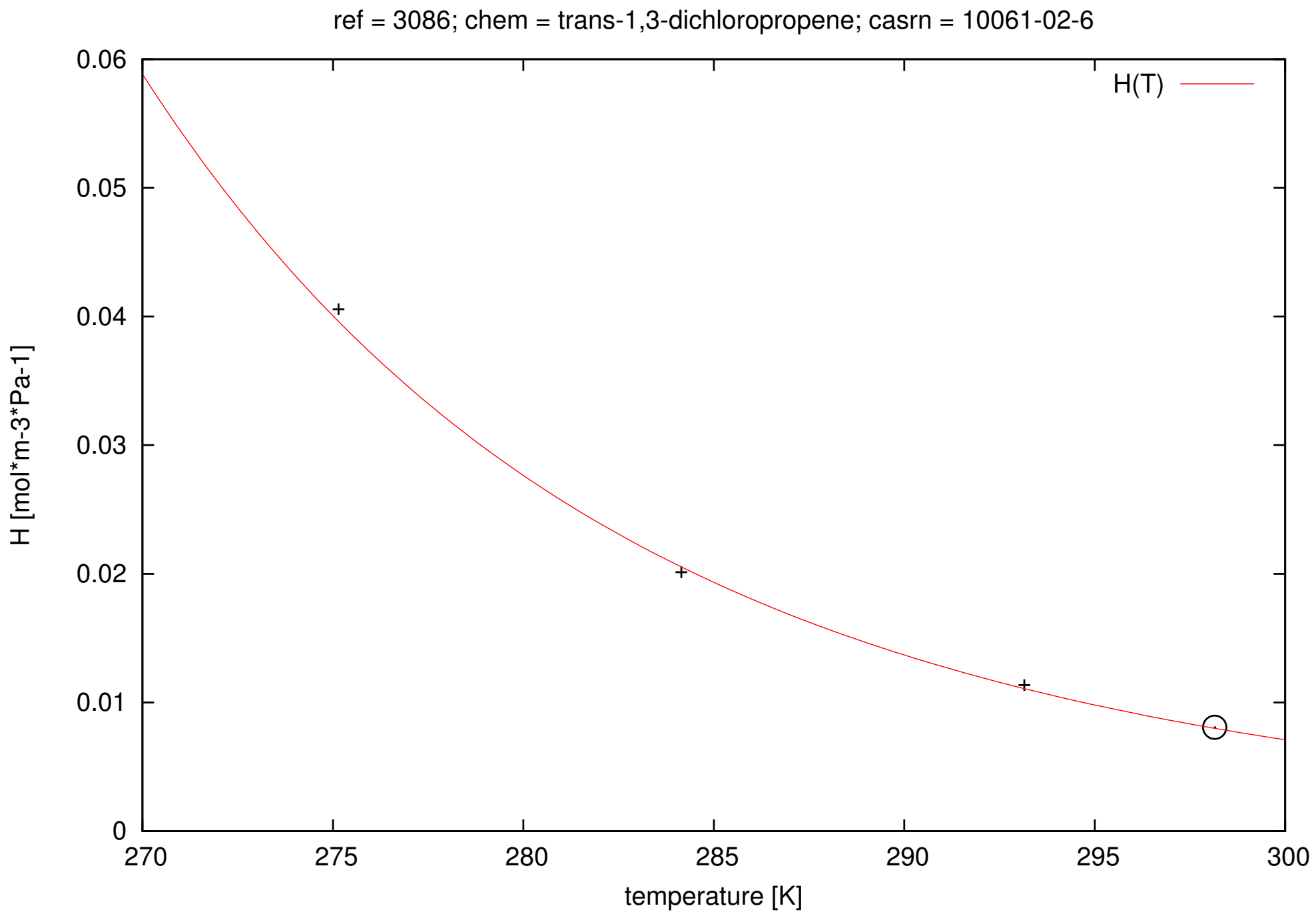

ref = 3077; chem = tetraethyllead; casrn = 78-00-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.00014
0.00012
0.0001
8e-05
6e-05
4e-05
2e-05
0
270
280
290
300
310
320

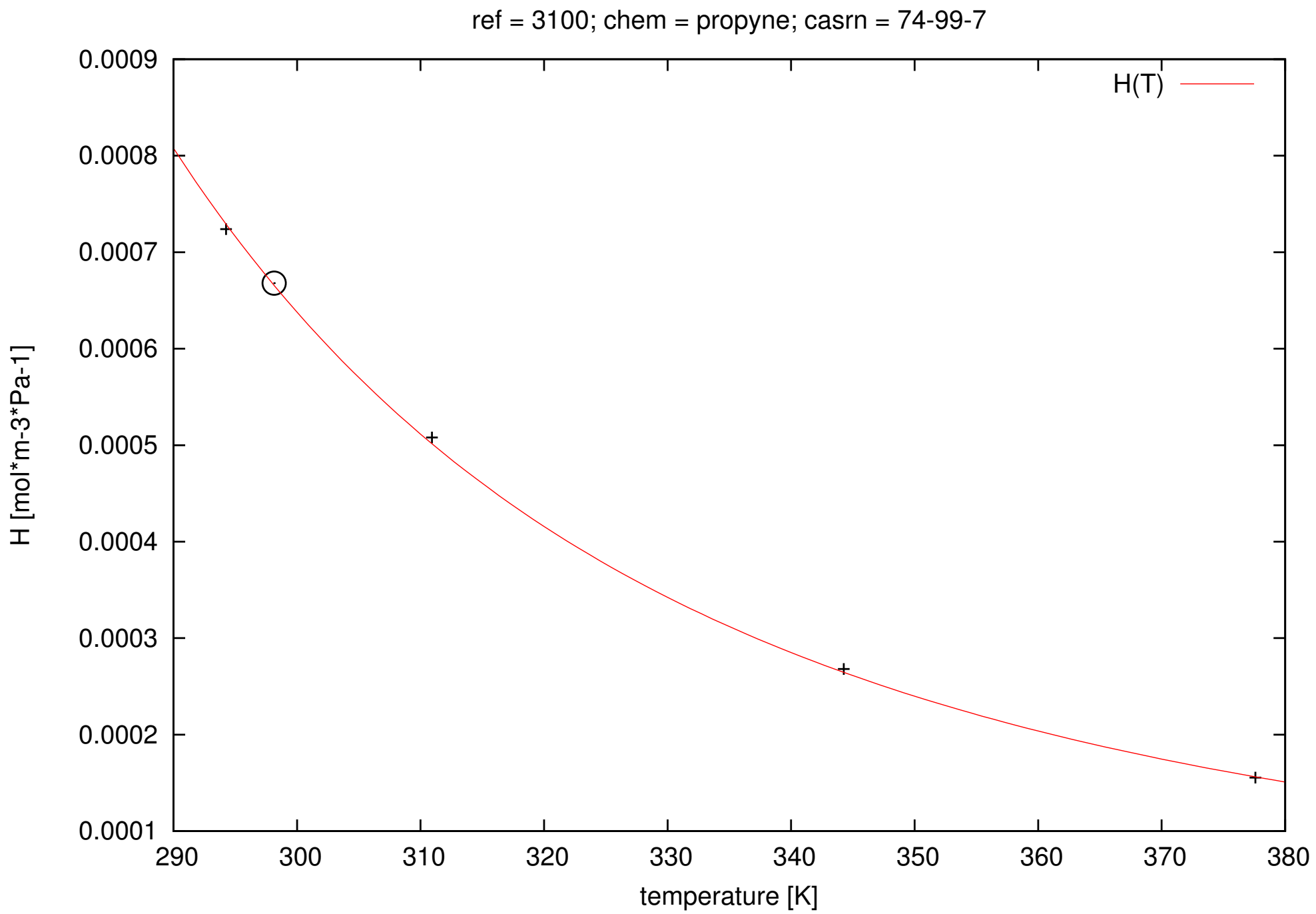

ref = 3080; chem = N-ethyl-N-nitroso-ethanamine; casrn = 55-18-5
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0
5
10
15
20
25
30
35
40
45
50
55
270
280
290
300
310
320

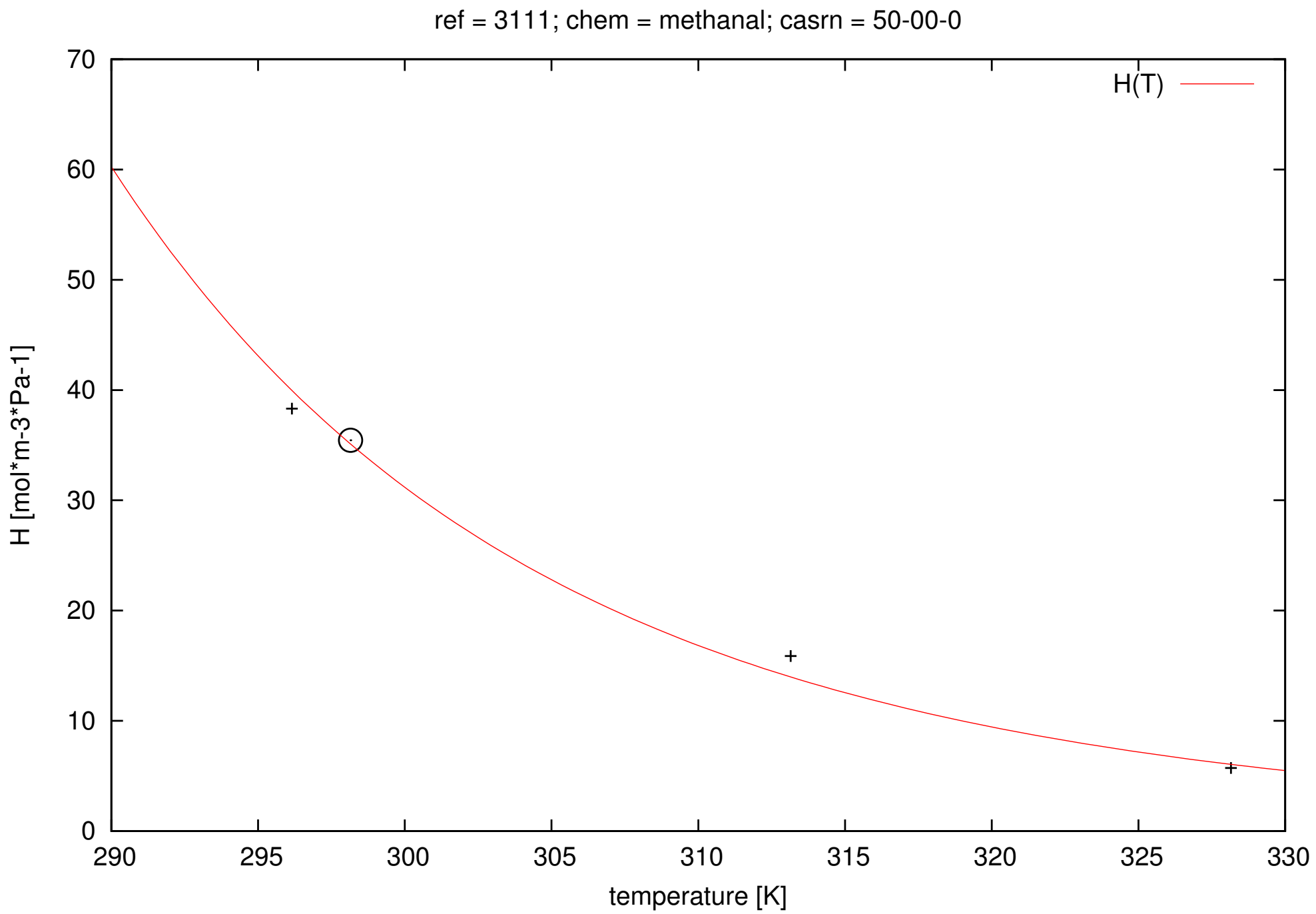

ref = 3080; chem = N-nitrosodimethylamine; casrn = 62-75-9
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0
10
20
30
40
50
60
270
280
290
300
310
320

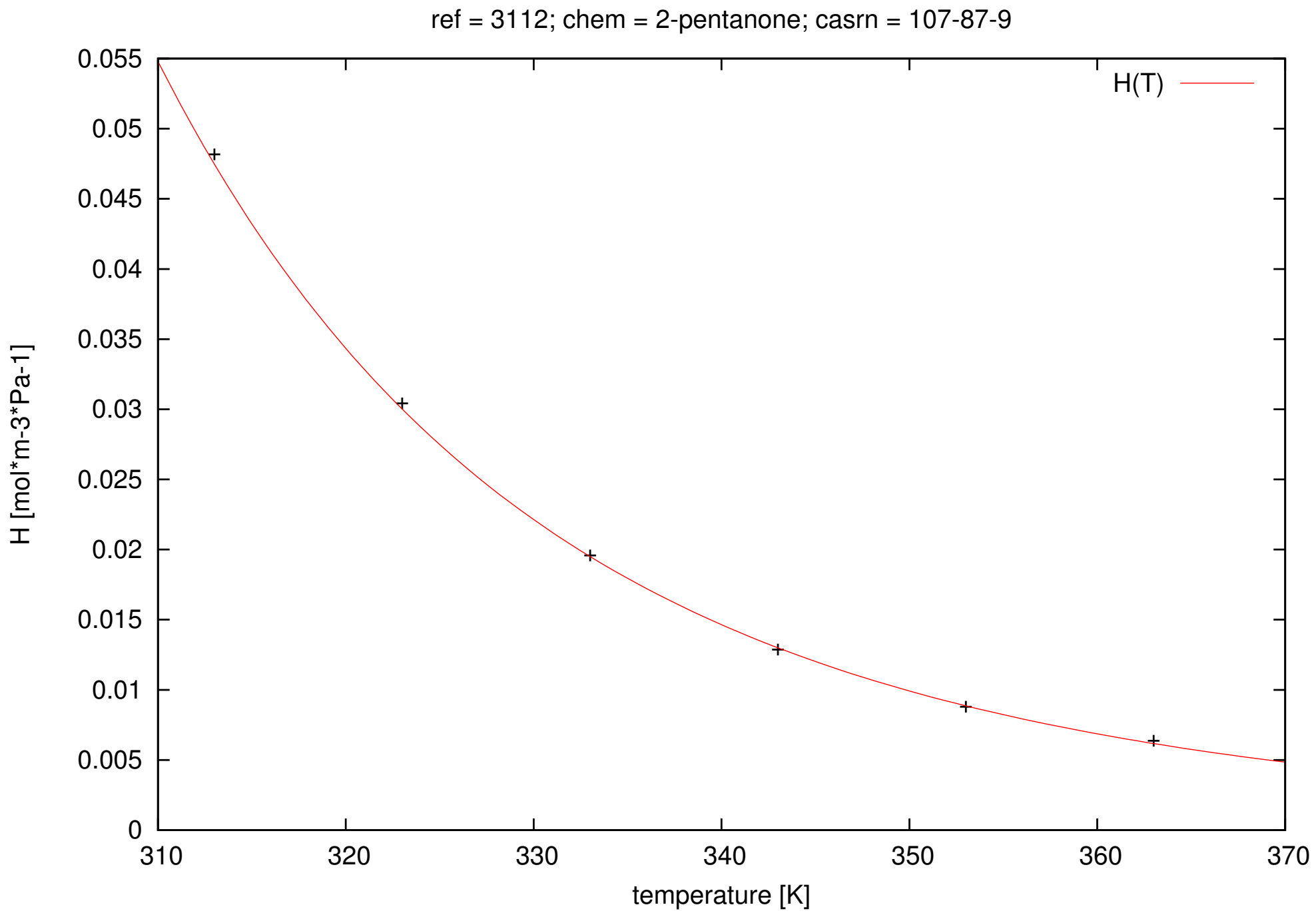

ref = 3080; chem = N-nitrosopyrrolidine; casrn = 930-55-2
H(T)
H [mol*m-3*Pa-1]
temperature [K]
350
300
250
200
150
100
50
0
290
295
300
305
310
315
320

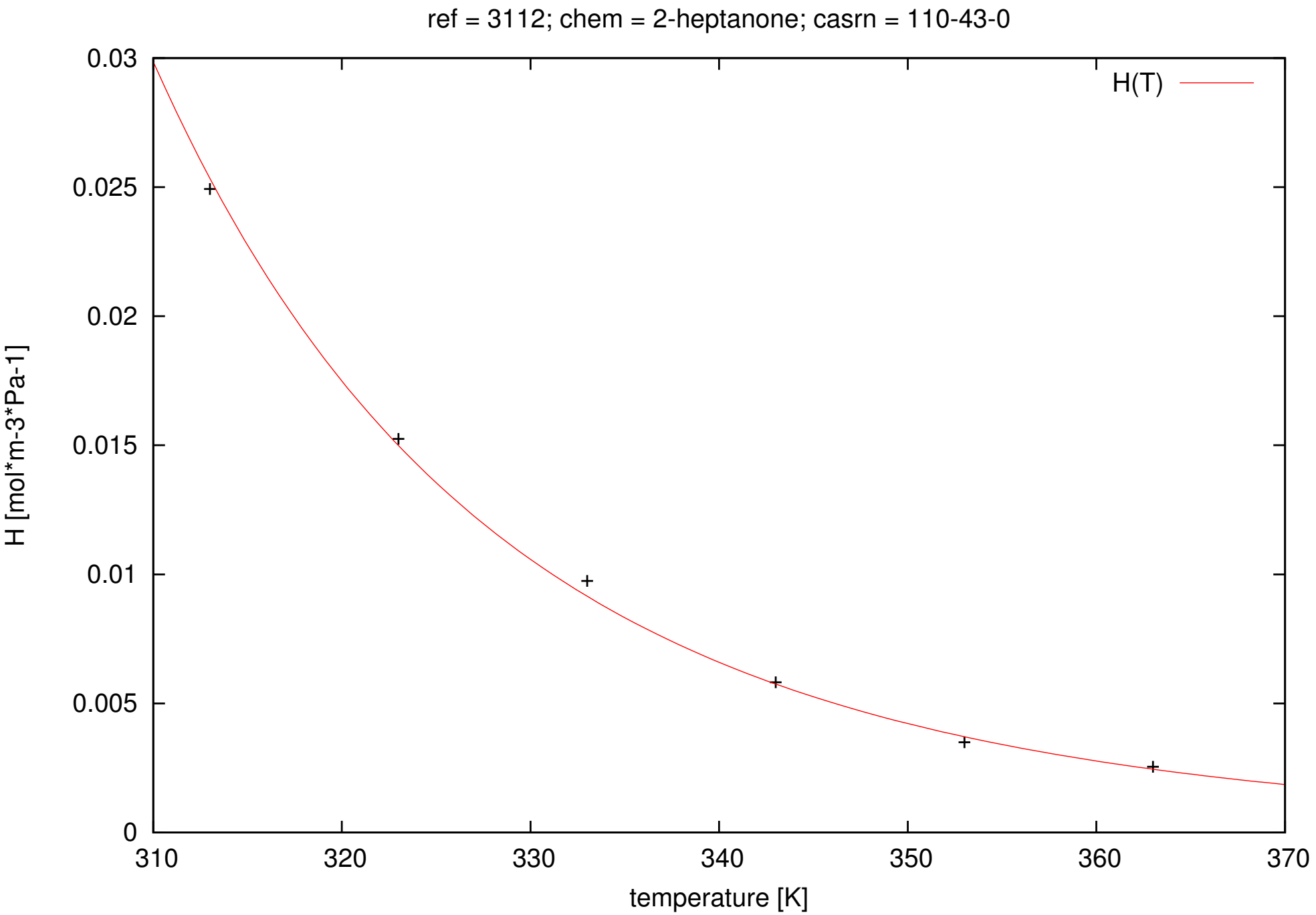

ref = 3086; chem = cis-1,3-dichloropropene; casrn = 10061-01-5
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
270
275
280
285
290
295
300

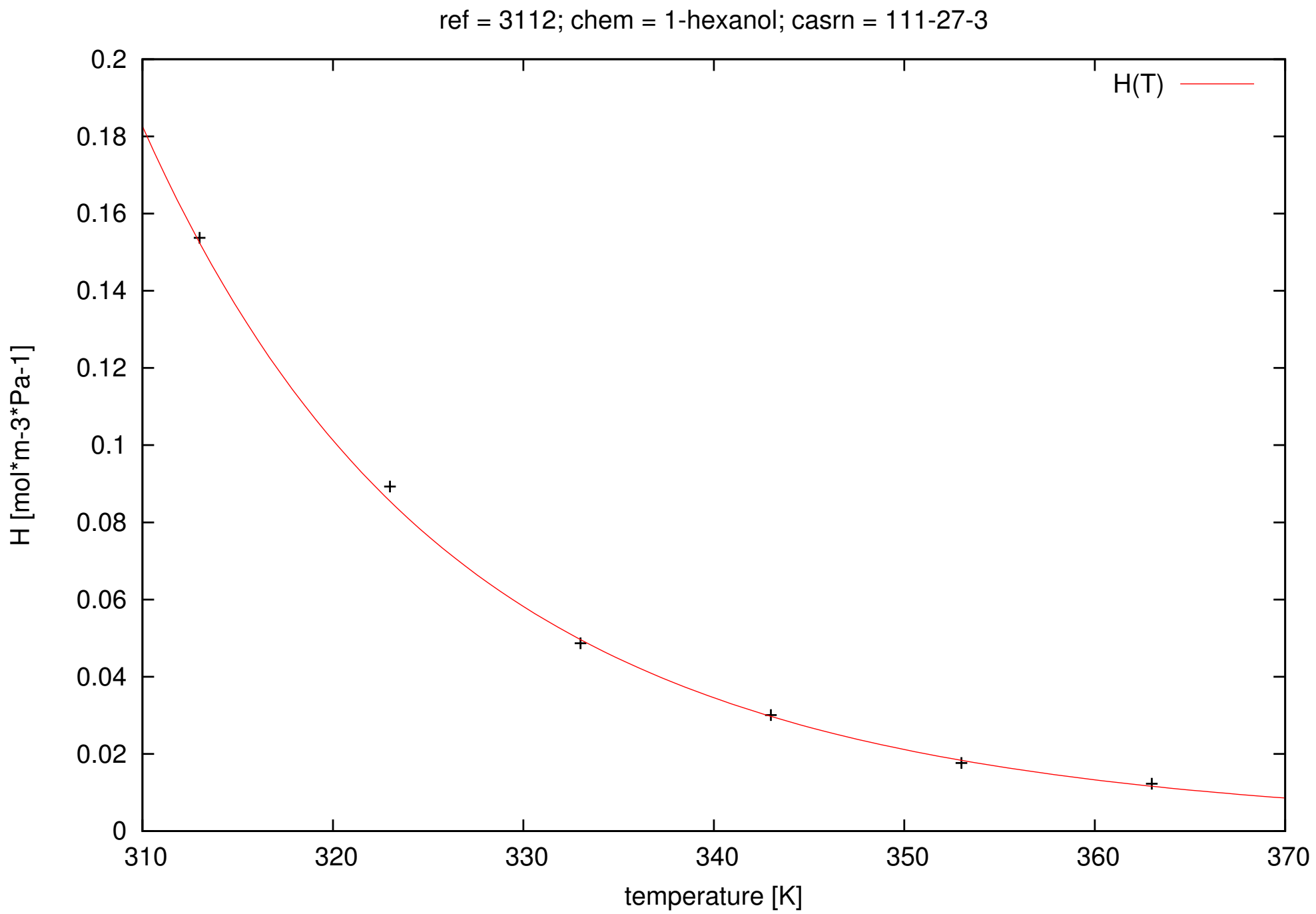

ref = 3086; chem = trans-1,3-dichloropropene; casrn = 10061-02-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.06
0.05
0.04
0.03
0.02
0.01
0
270
275
280
285
290
295
300

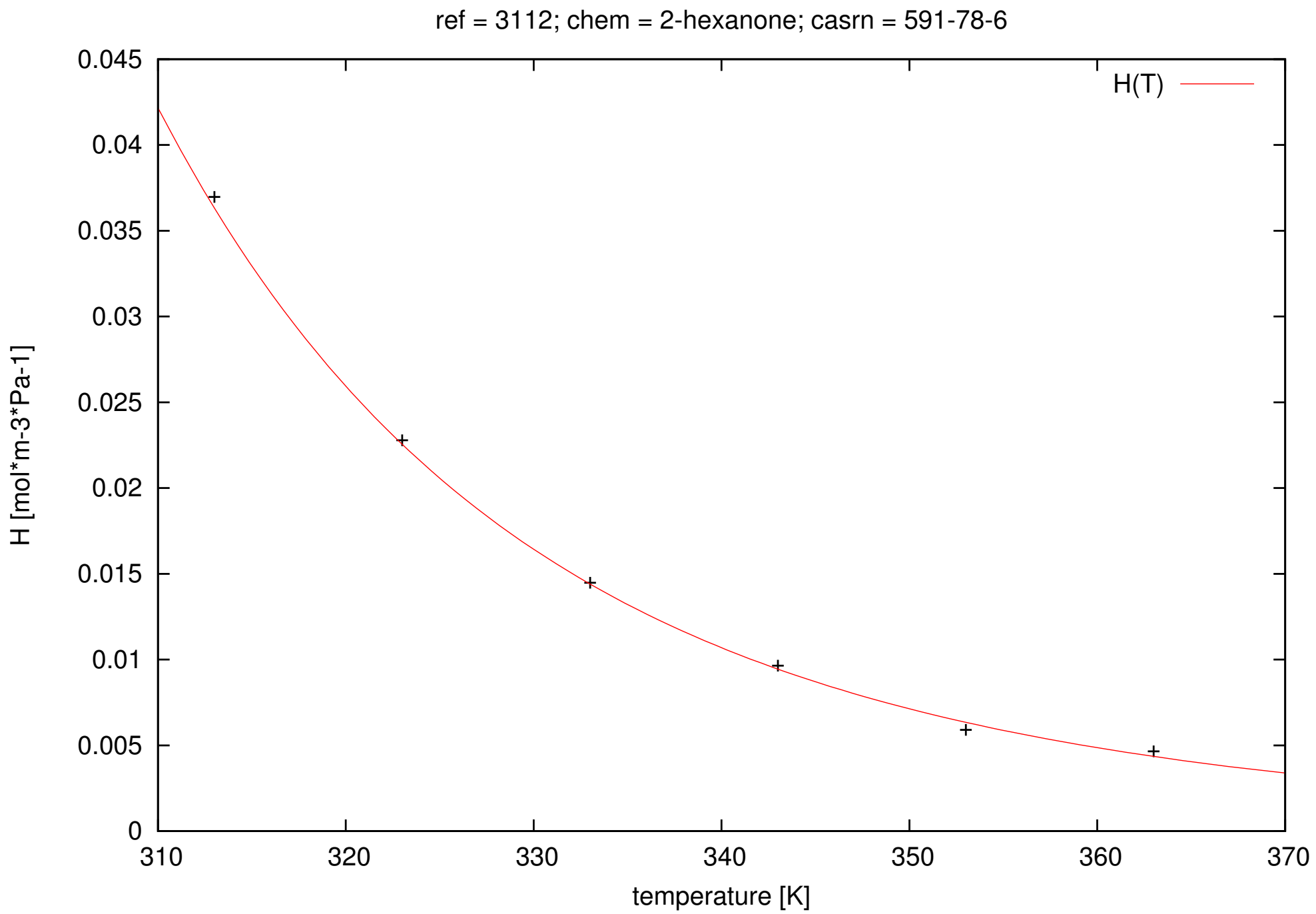

ref = 3100; chem = propyne; casrn = 74-99-7
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
290
300
310
320
330
340
350
360
370
380

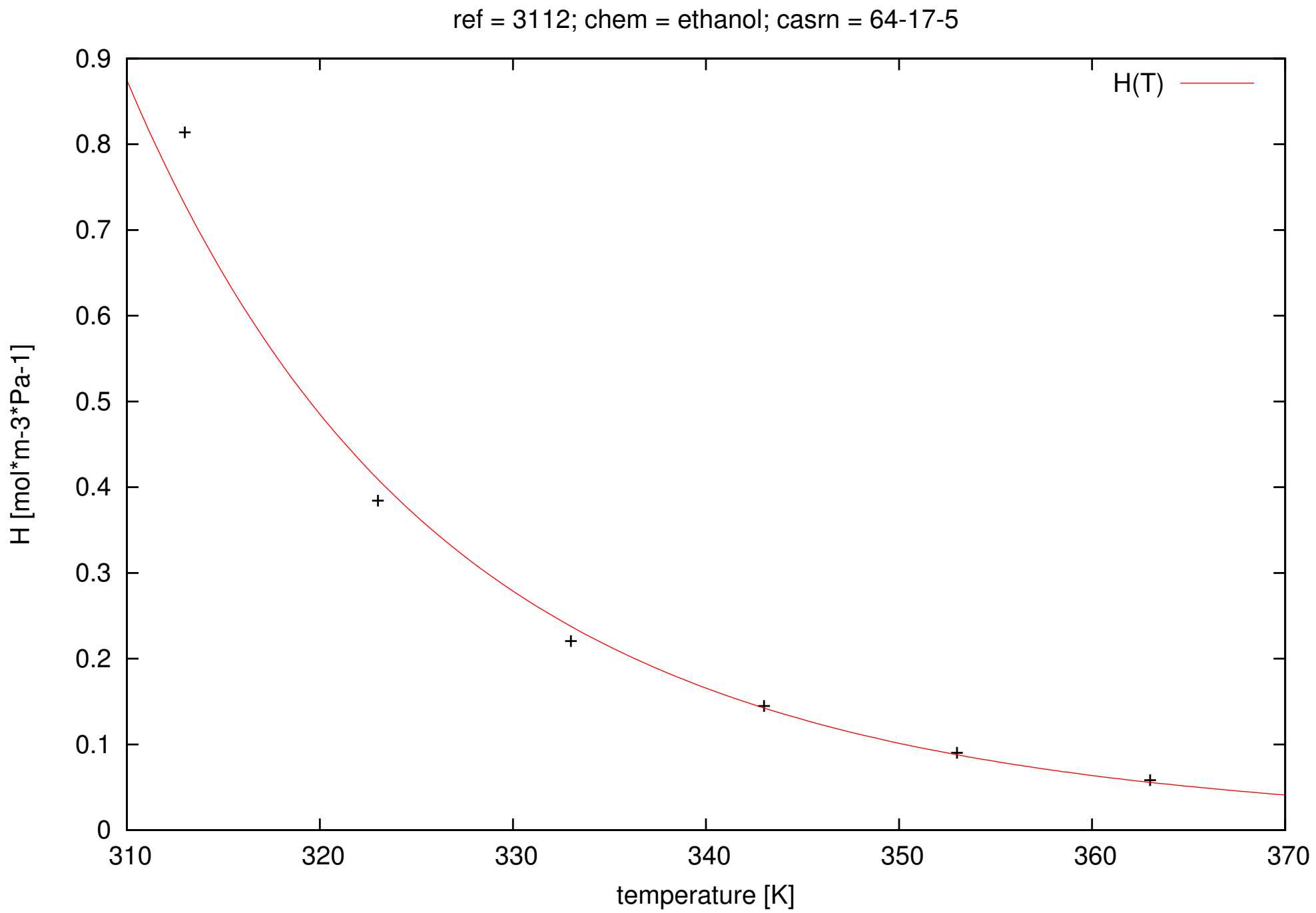

ref = 3111; chem = methanal; casrn = 50-00-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0
10
20
30
40
50
60
70
290
295
300
305
310
315
320
325
330

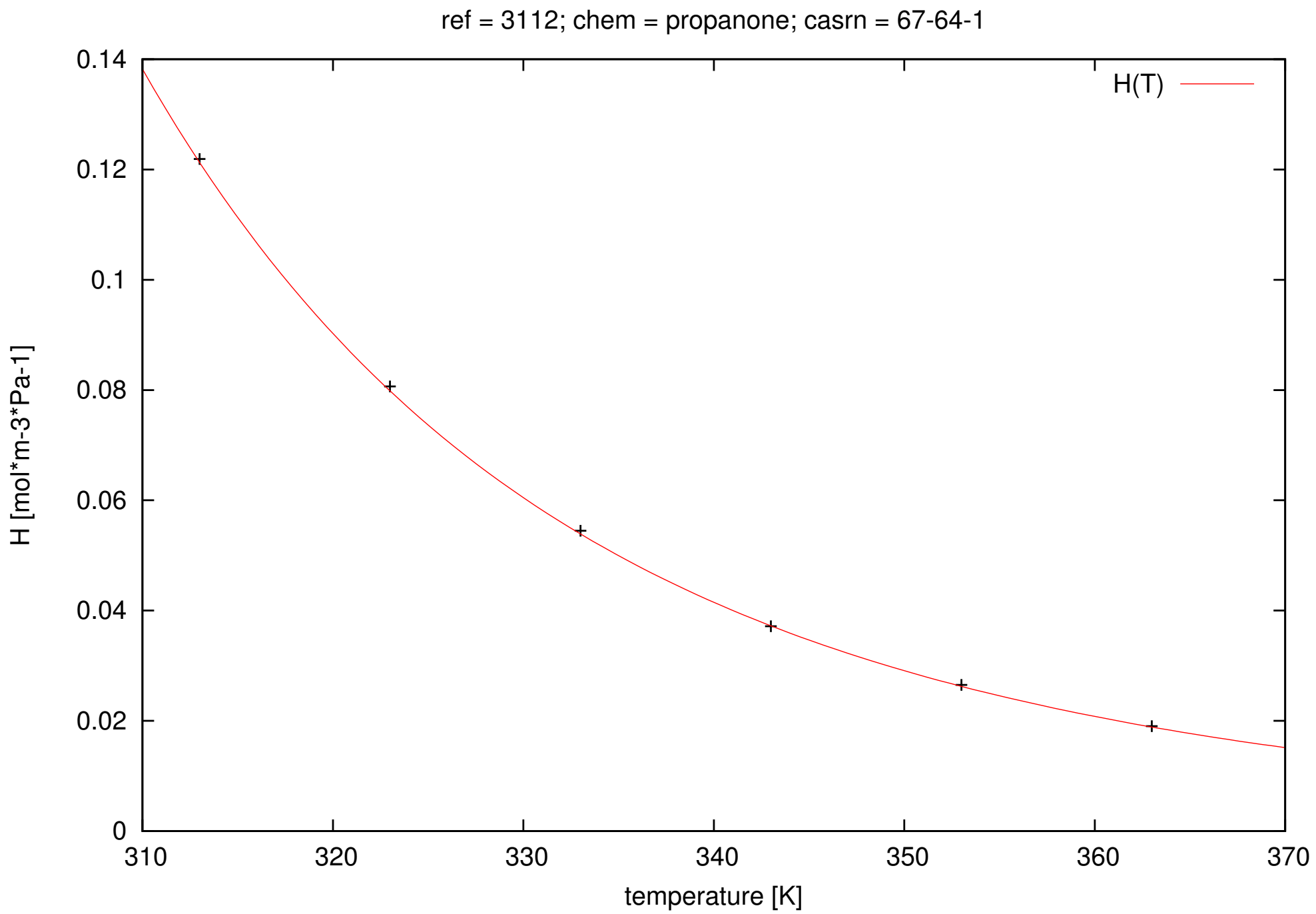

ref = 3112; chem = 2-pentanone; casrn = 107-87-9
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
310
320
330
340
350
360
370

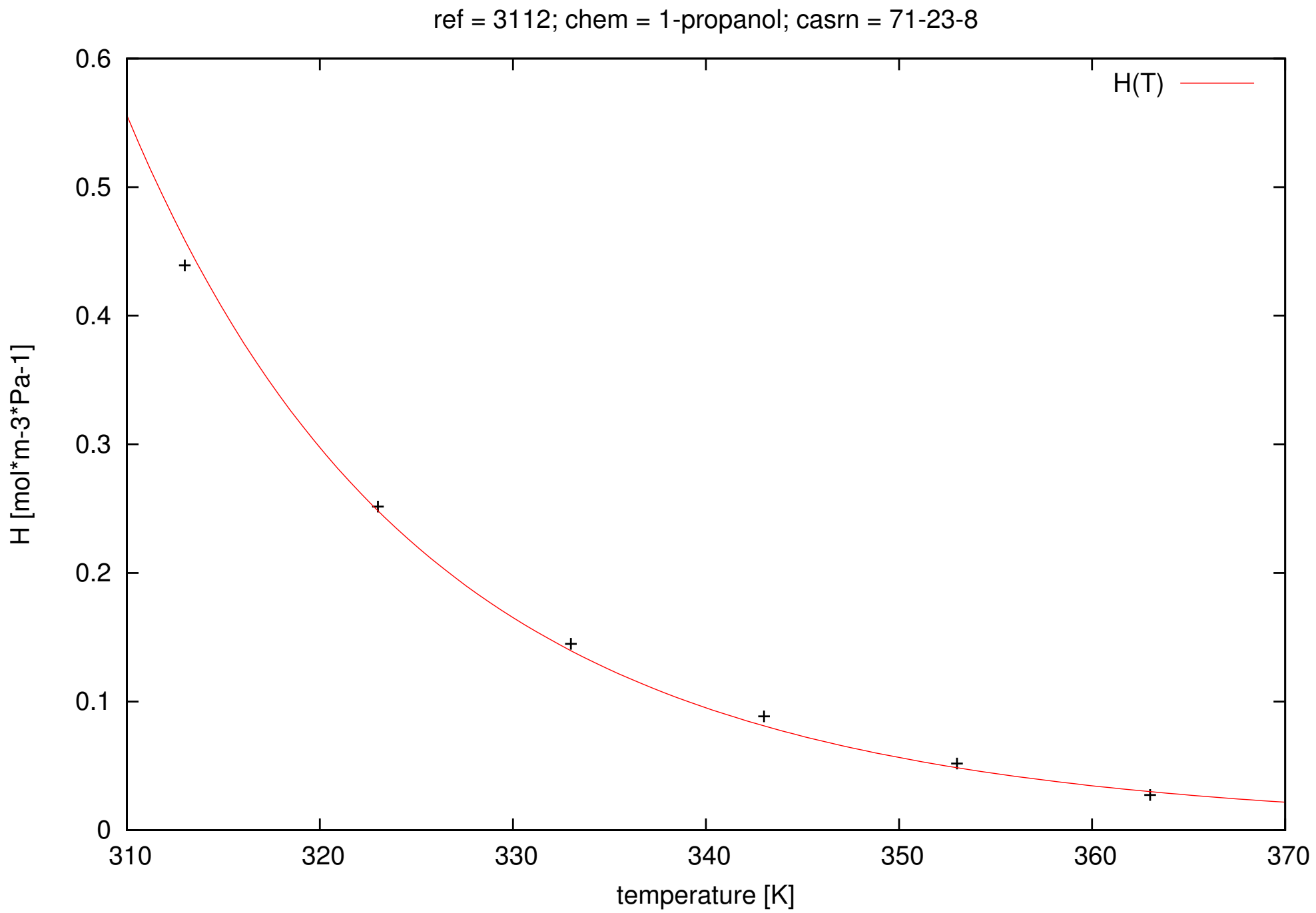

ref = 3112; chem = 2-heptanone; casrn = 110-43-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.03
0.025
0.02
0.015
0.01
0.005
0
310
320
330
340
350
360
370

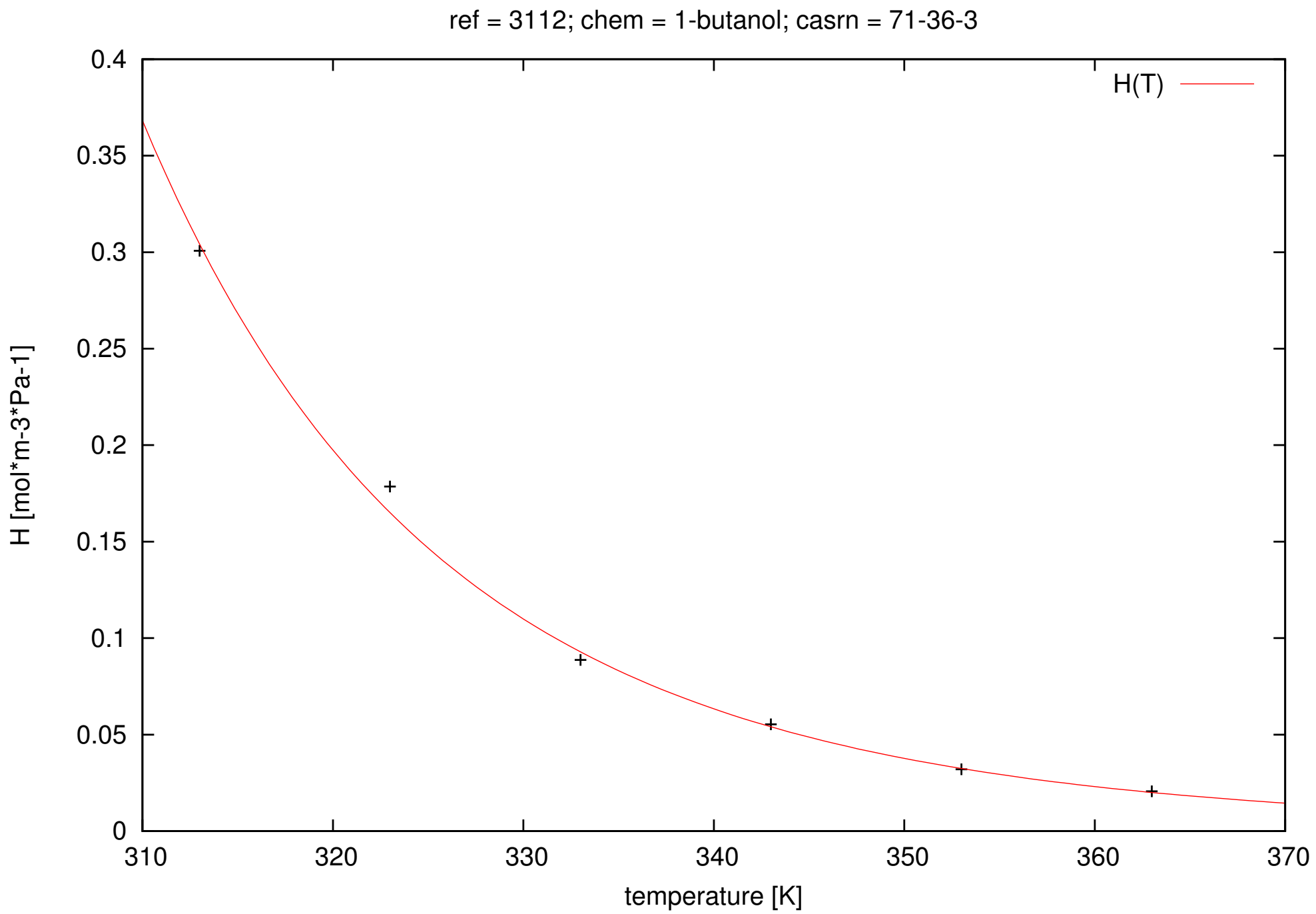

ref = 3112; chem = 1-hexanol; casrn = 111-27-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
310
320
330
340
350
360
370

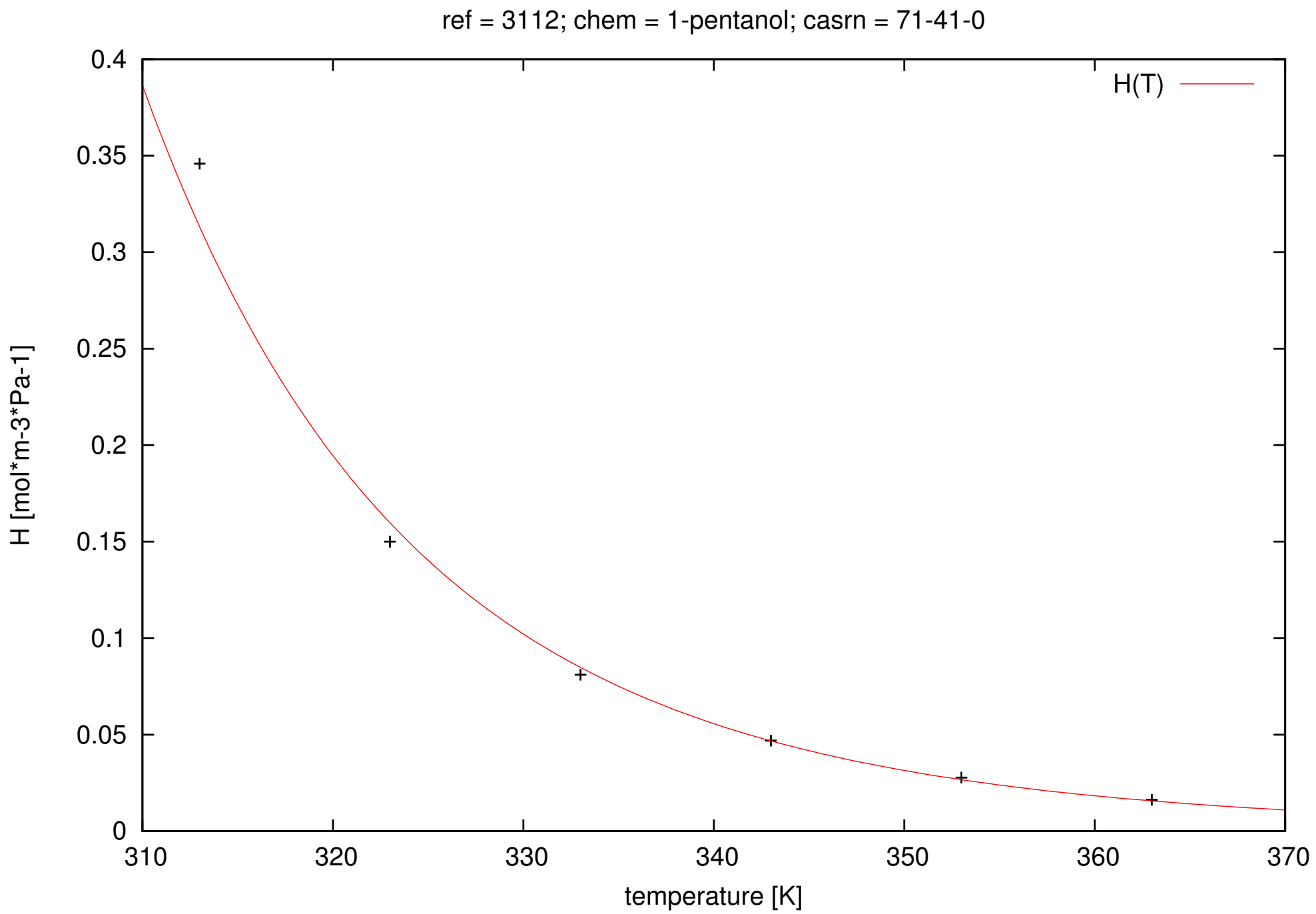

ref = 3112; chem = 2-hexanone; casrn = 591-78-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
310
320
330
340
350
360
370

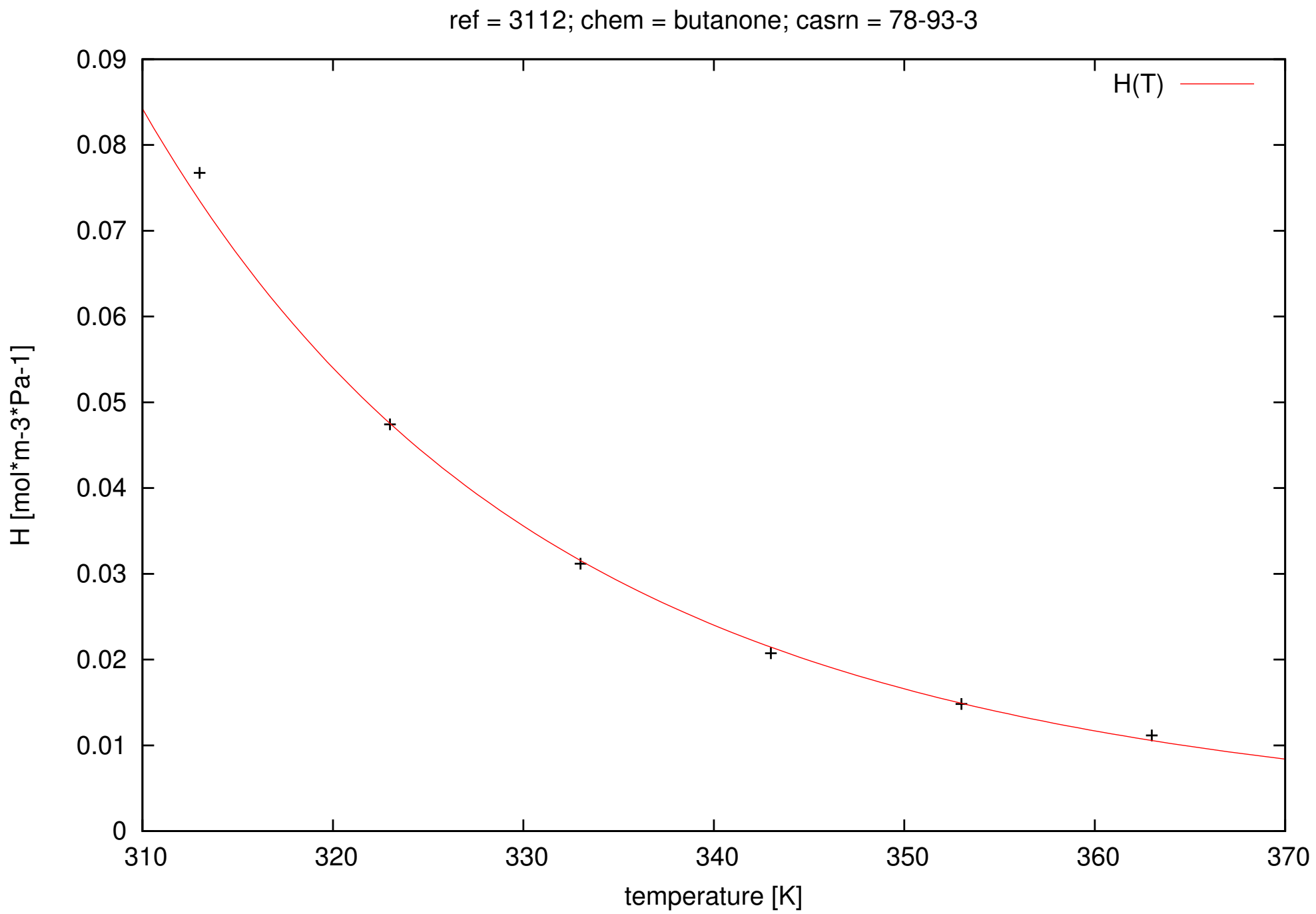

ref = 3112; chem = ethanol; casrn = 64-17-5
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
310
320
330
340
350
360
370

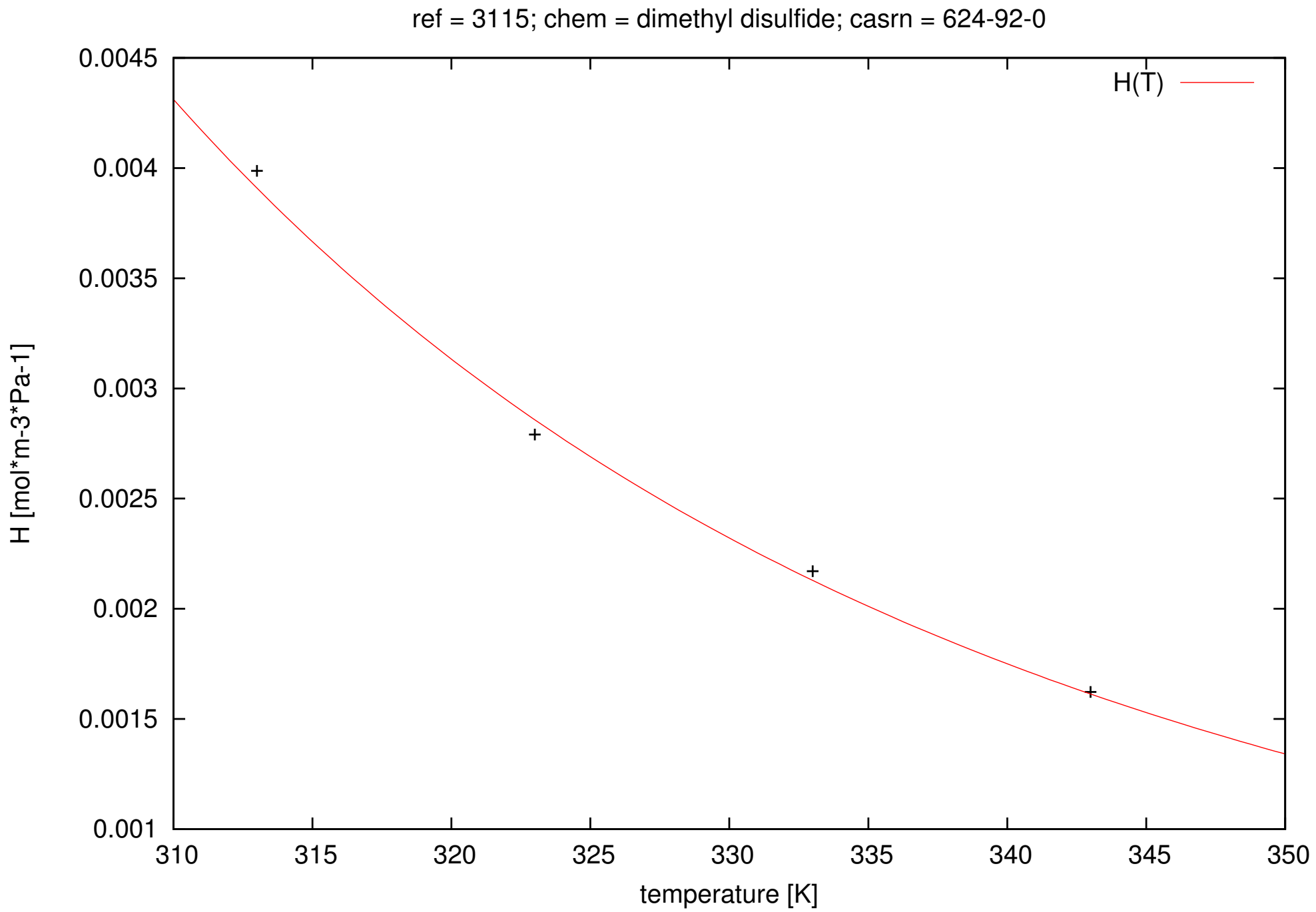

ref = 3112; chem = propanone; casrn = 67-64-1
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
310
320
330
340
350
360
370

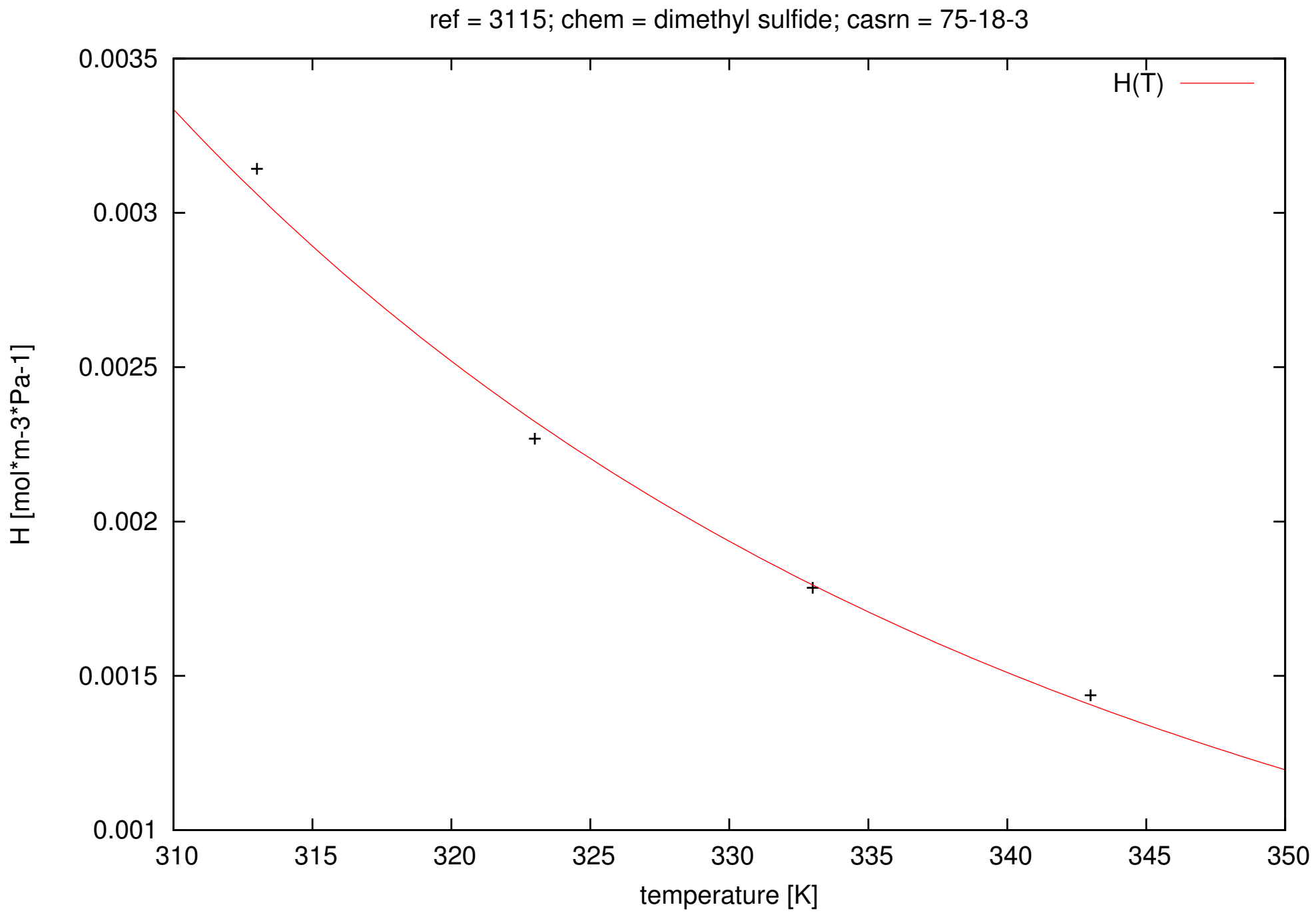

ref = 3112; chem = 1-propanol; casrn = 71-23-8
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.6
0.5
0.4
0.3
0.2
0.1
0
310
320
330
340
350
360
370

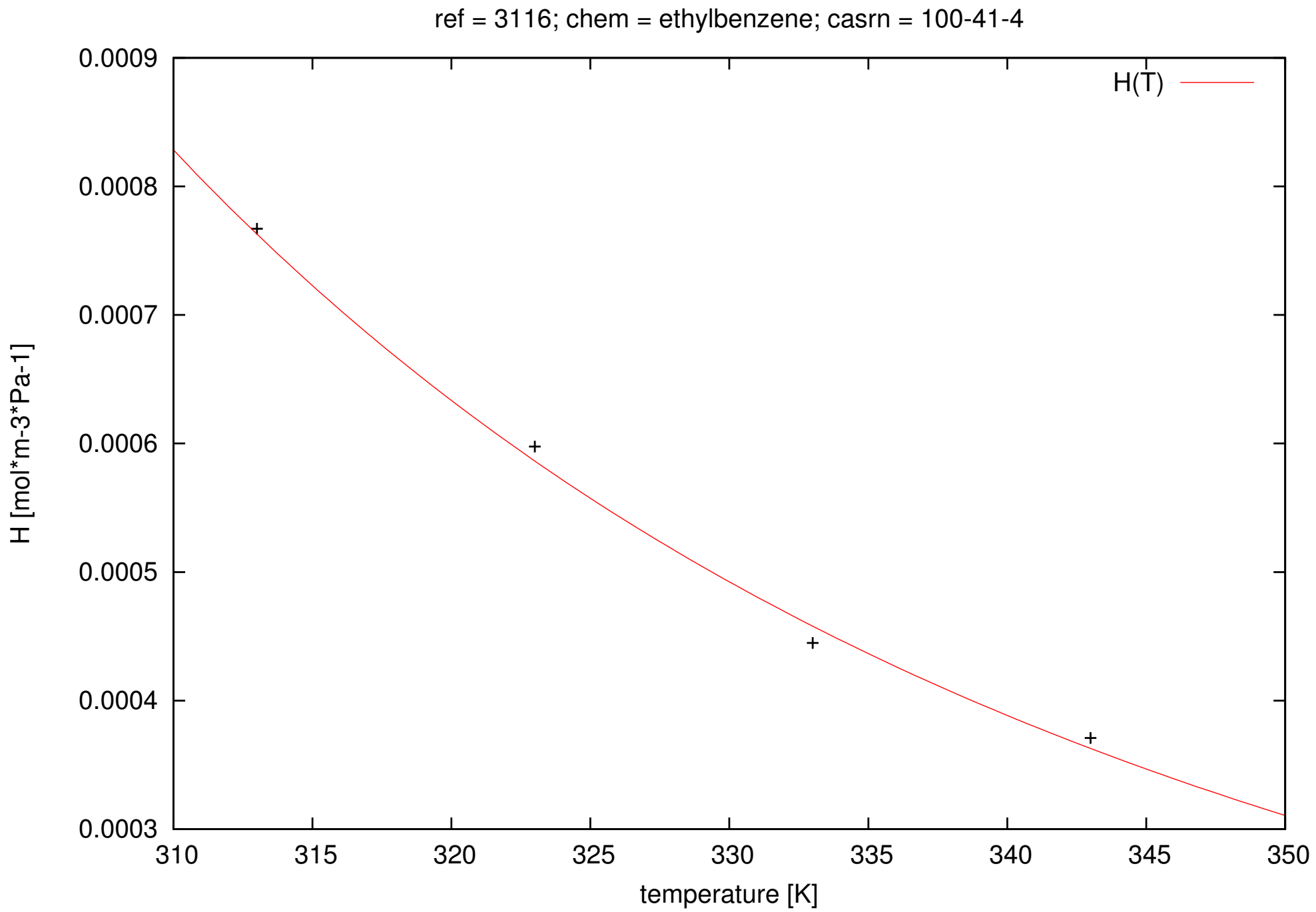

ref = 3112; chem = 1-butanol; casrn = 71-36-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
310
320
330
340
350
360
370

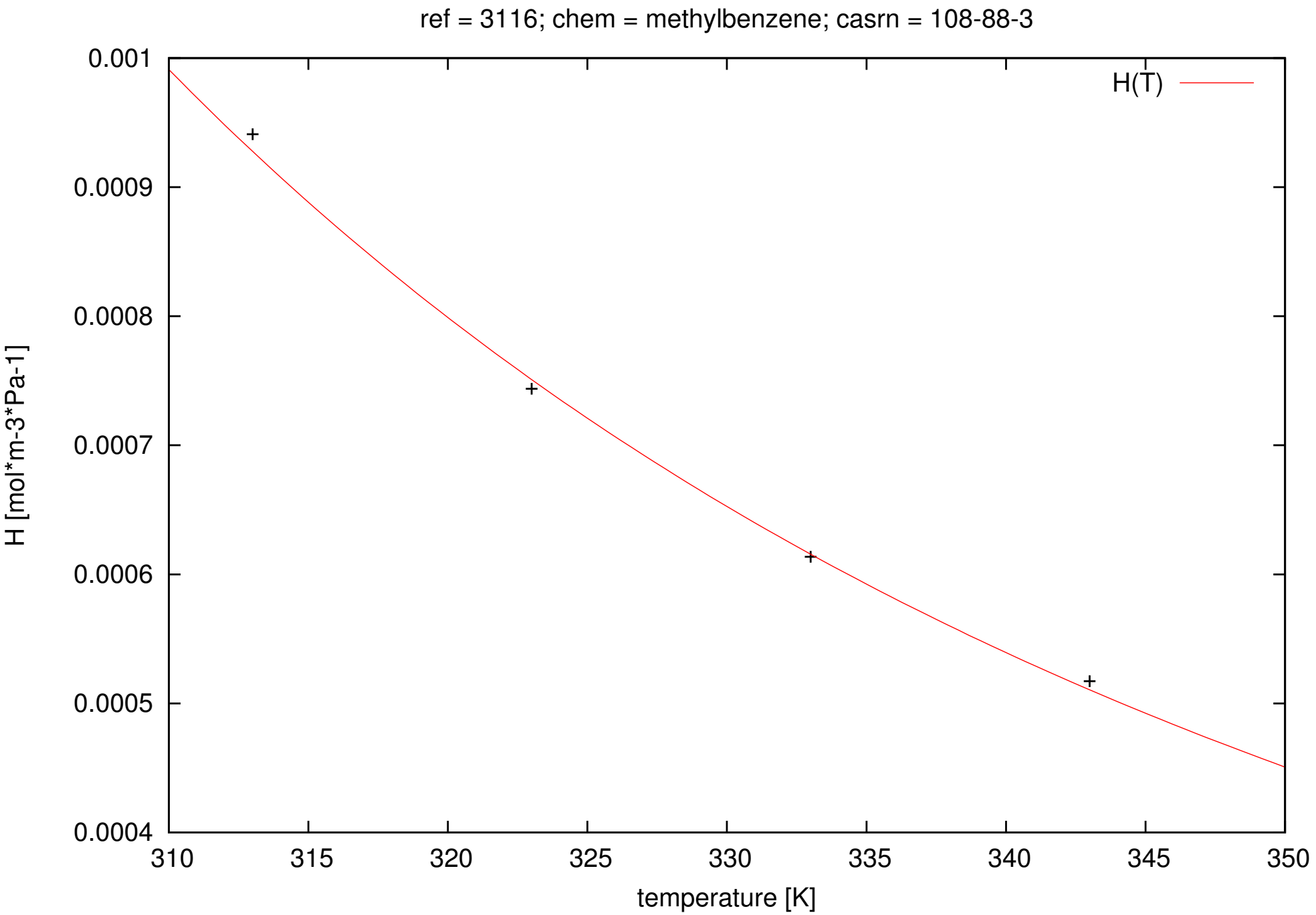

ref = 3112; chem = 1-pentanol; casrn = 71-41-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
310
320
330
340
350
360
370

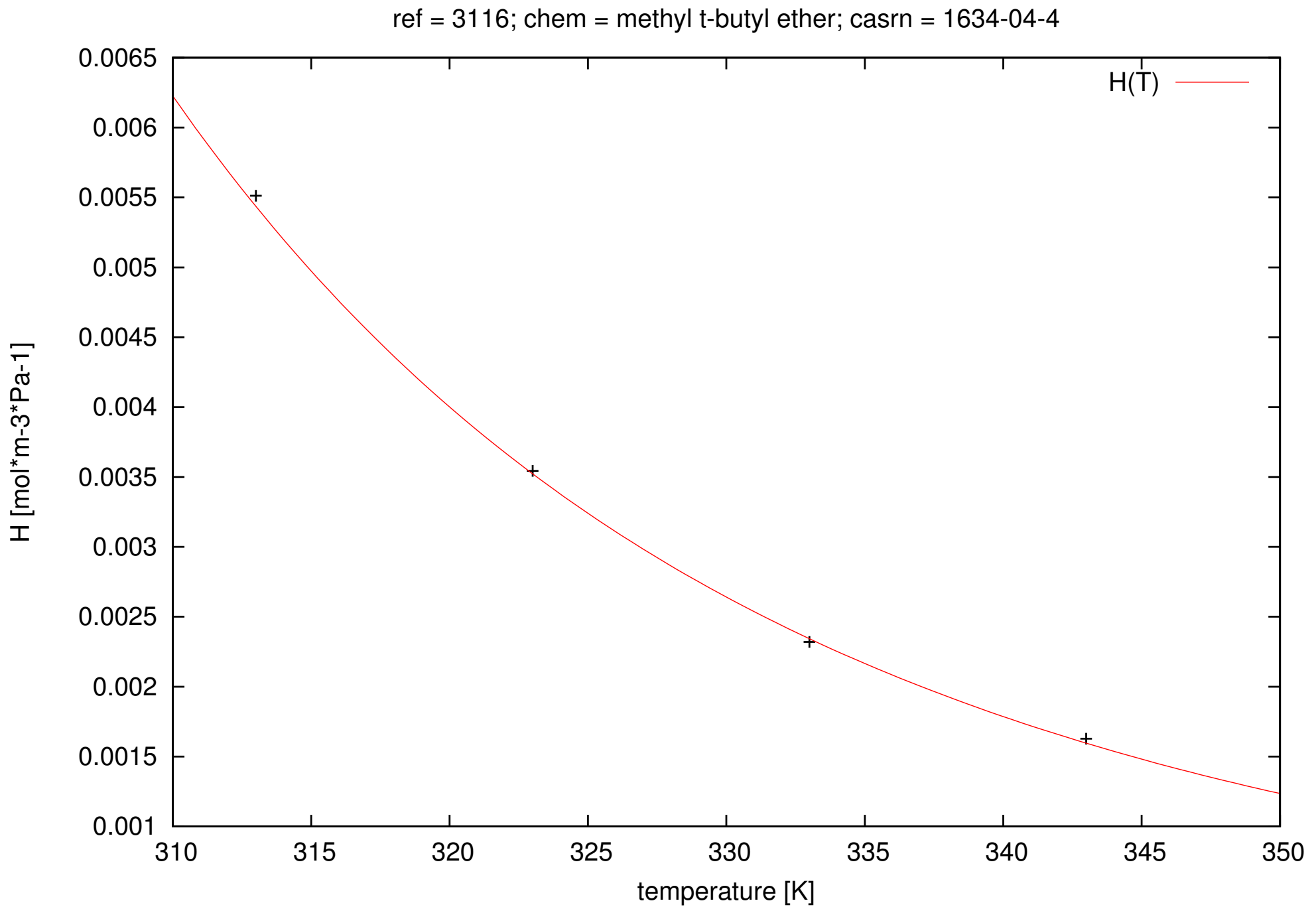

ref = 3112; chem = butanone; casrn = 78-93-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
310
320
330
340
350
360
370

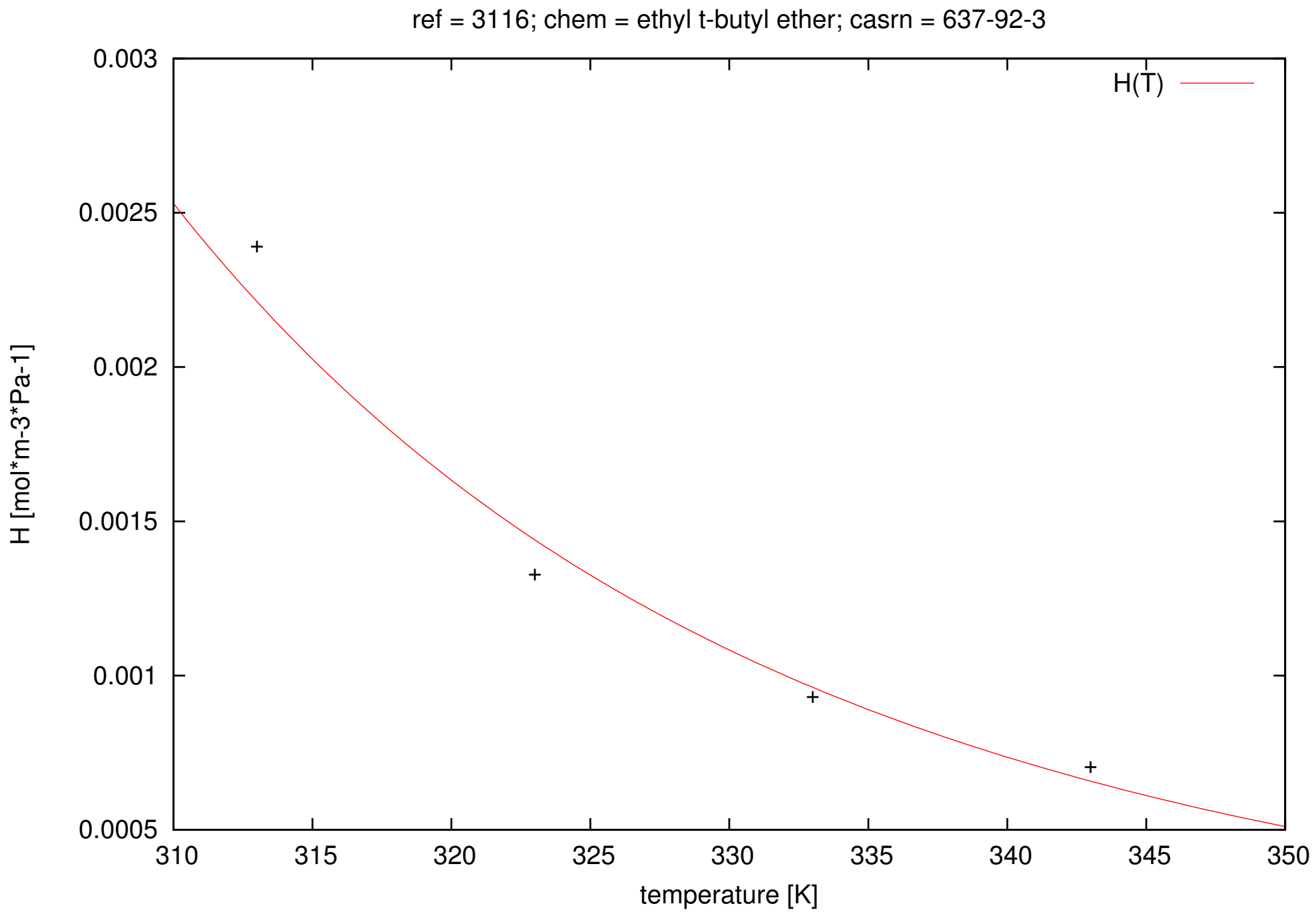

ref = 3115; chem = dimethyl disulfide; casrn = 624-92-0
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
310
315
320
325
330
335
340
345
350

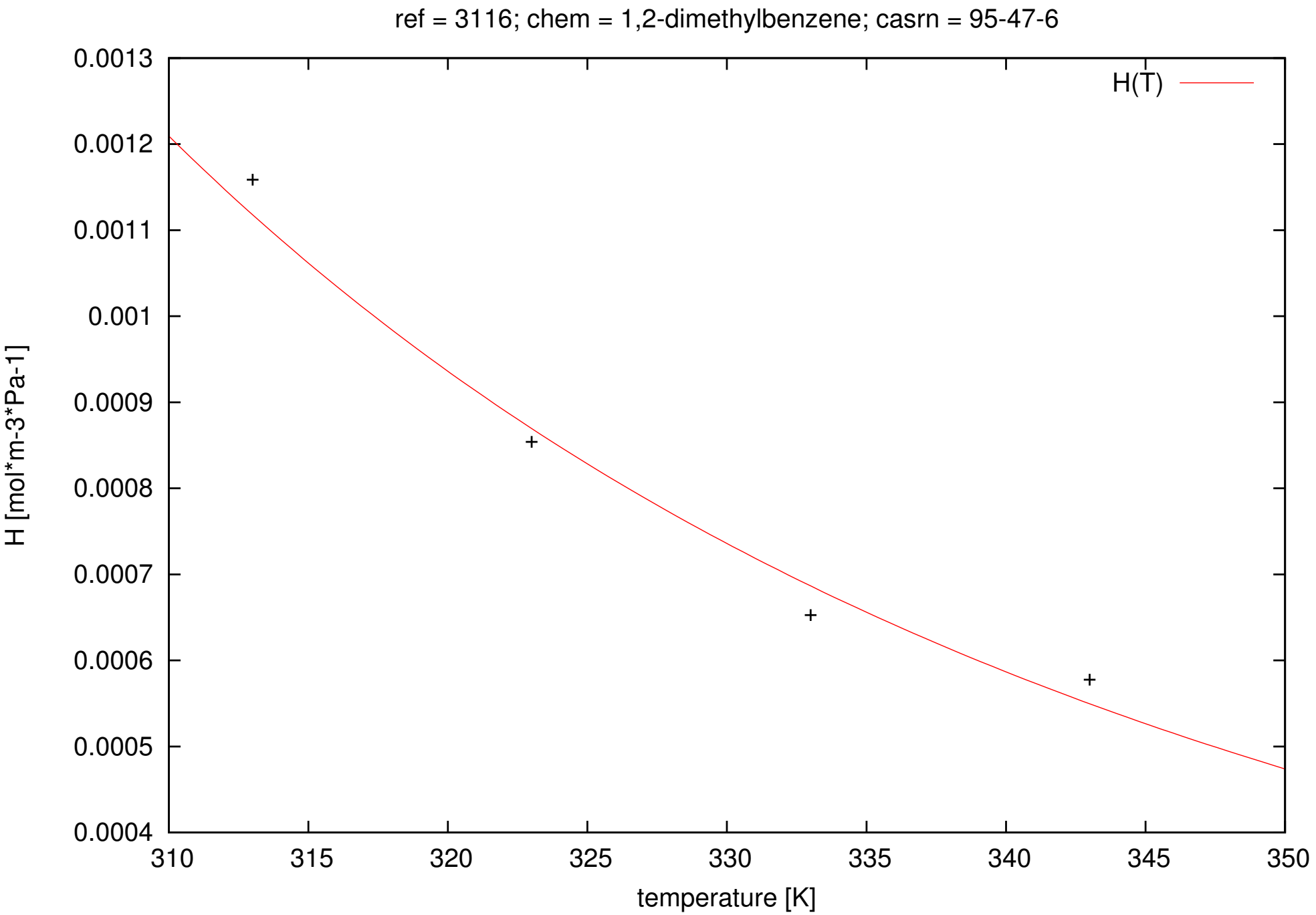

ref = 3115; chem = dimethyl sulfide; casrn = 75-18-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0035
0.003
0.0025
0.002
0.0015
0.001
310
315
320
325
330
335
340
345
350

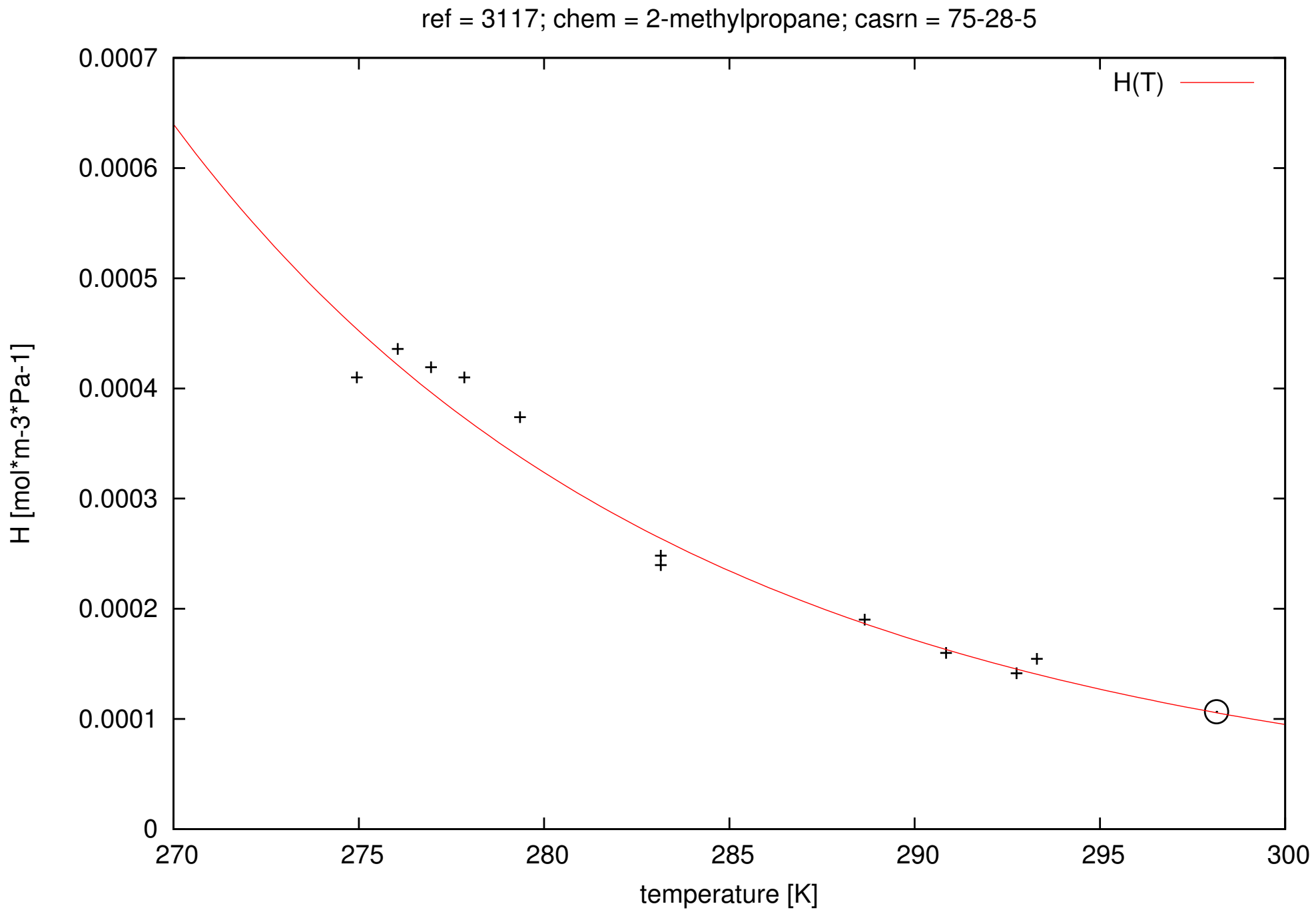

ref = 3116; chem = ethylbenzene; casrn = 100-41-4
H(T)
H [mol*m-3*Pa-1]
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
310
315
320
325
330
335
340
345
350
temperature [K]

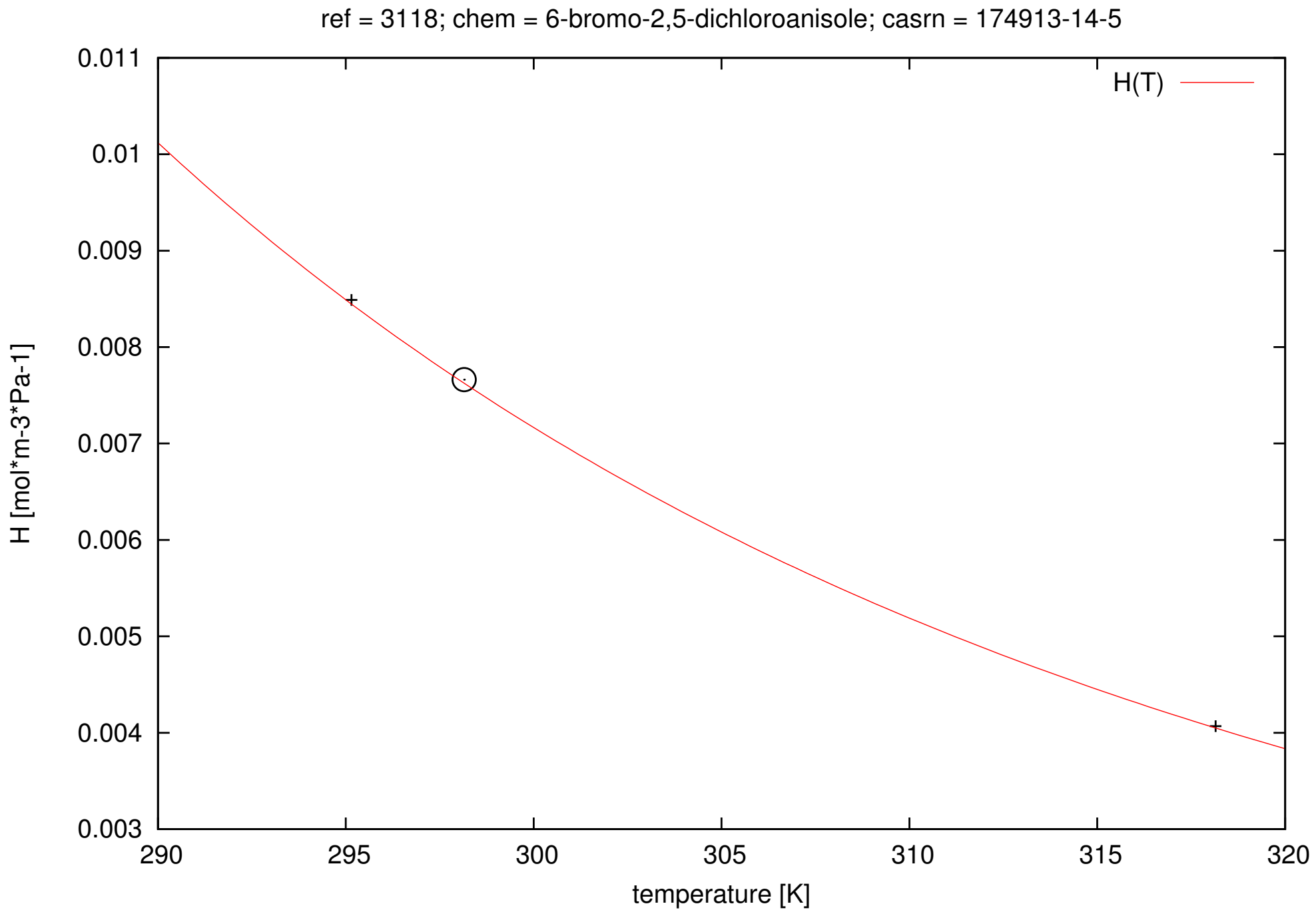

ref = 3116; chem = methylbenzene; casrn = 108-88-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.001
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004
310
315
320
325
330
335
340
345
350

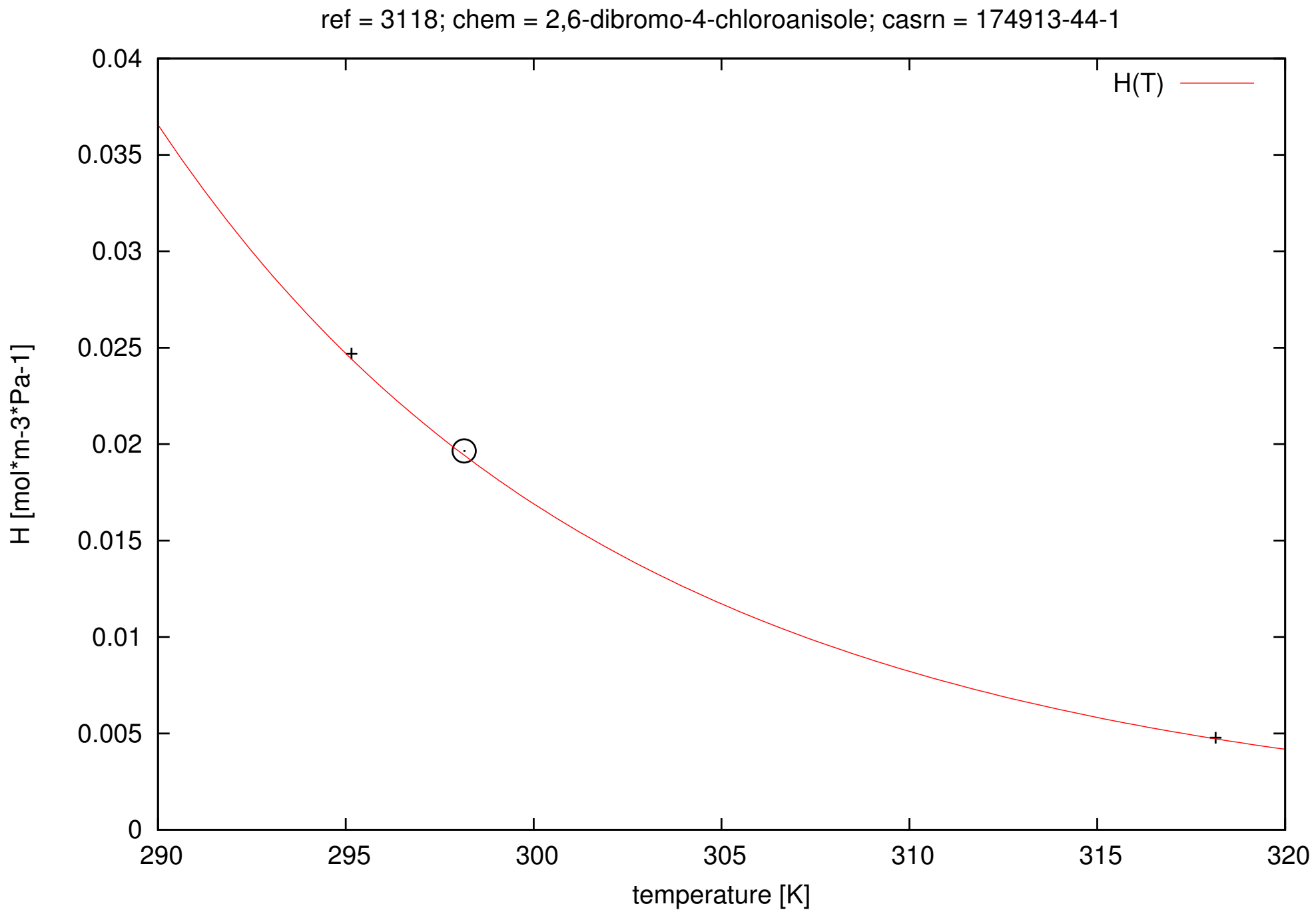

ref = 3116; chem = methyl t-butyl ether; casrn = 1634-04-4
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
310
315
320
325
330
335
340
345
350

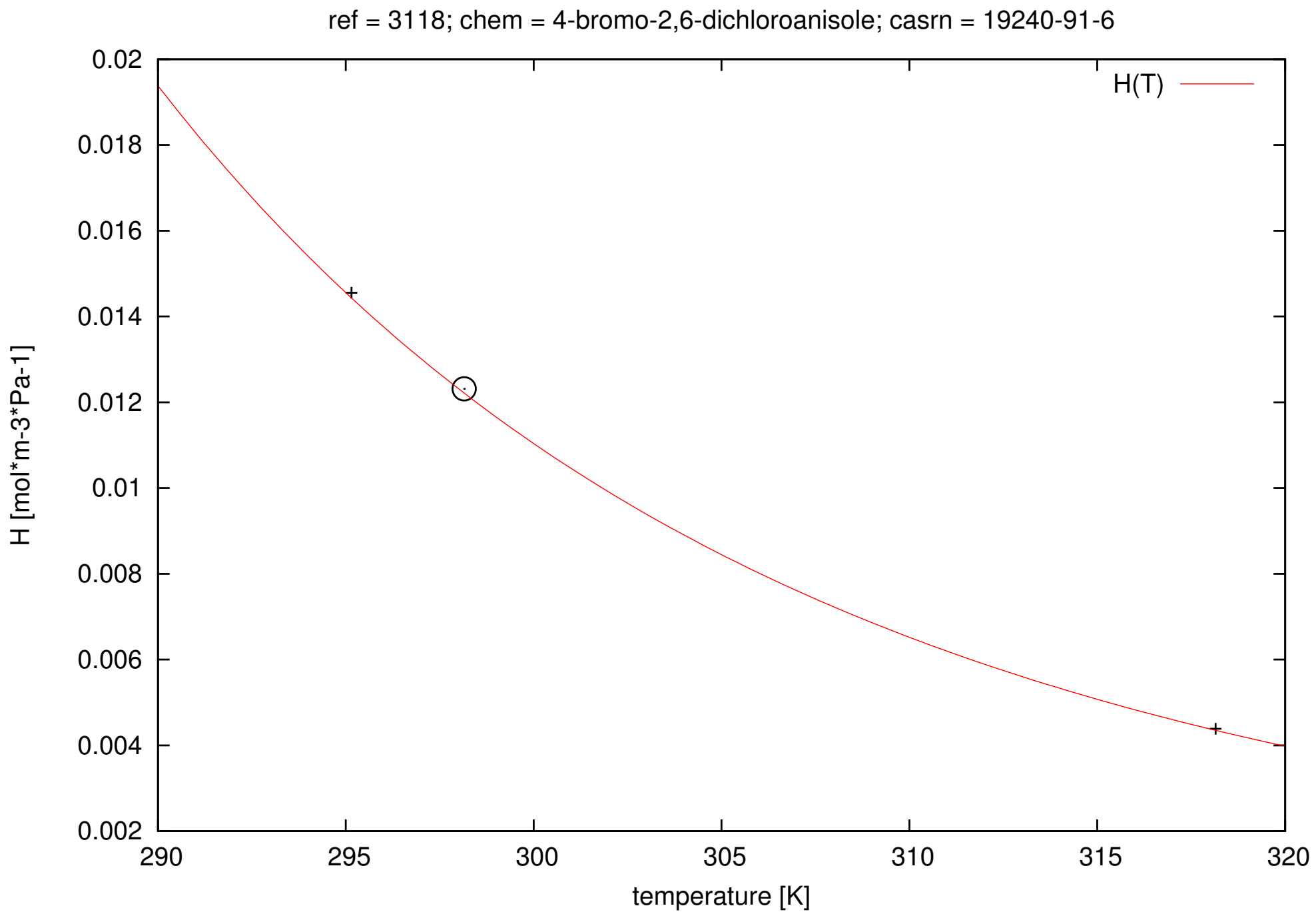

ref = 3116; chem = ethyl t-butyl ether; casrn = 637-92-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.003
0.0025
0.002
0.0015
0.001
0.0005
310
315
320
325
330
335
340
345
350

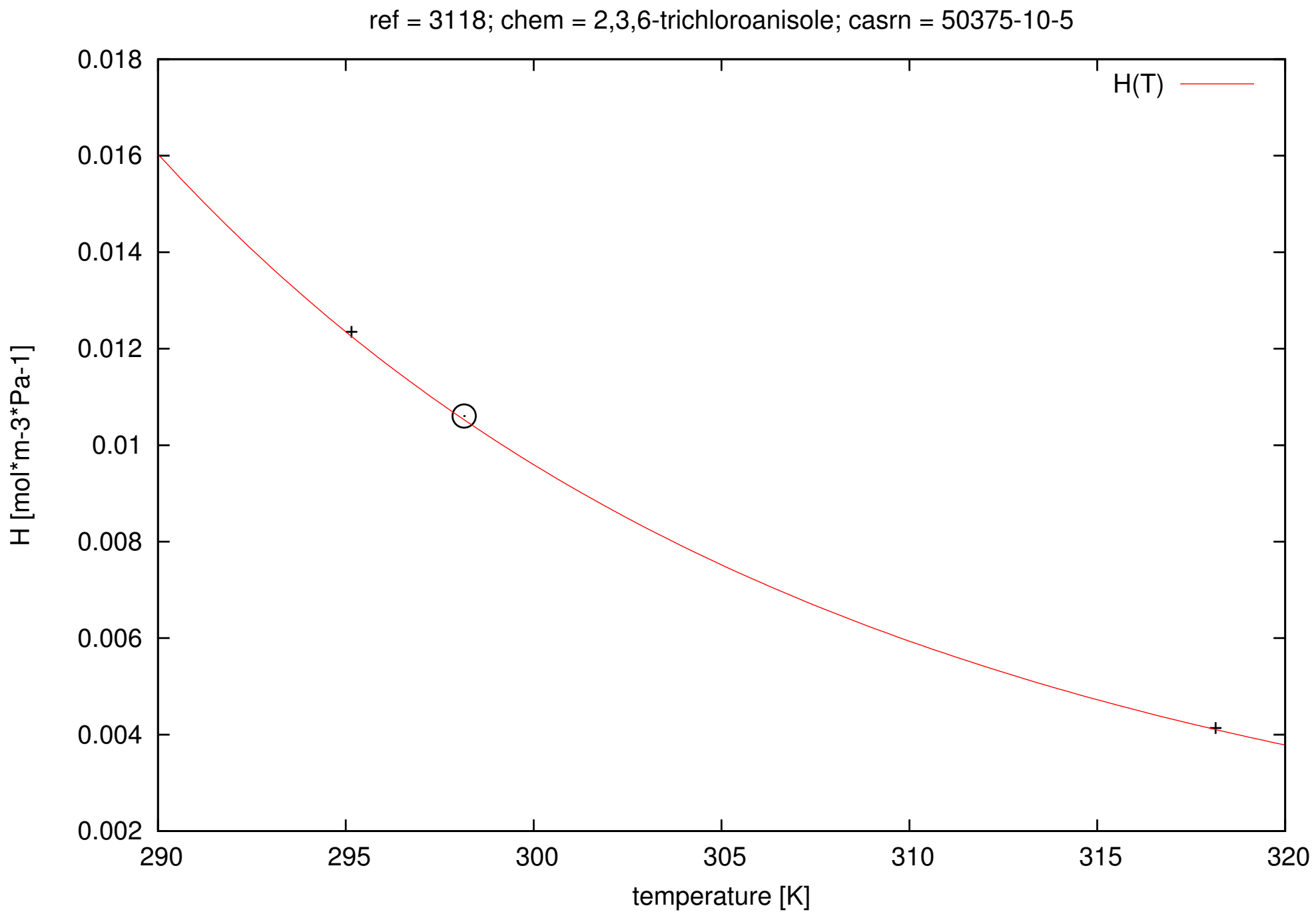

ref = 3116; chem = 1,2-dimethylbenzene; casrn = 95-47-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0013
0.0012
0.0011
0.001
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004
310
315
320
325
330
335
340
345
350

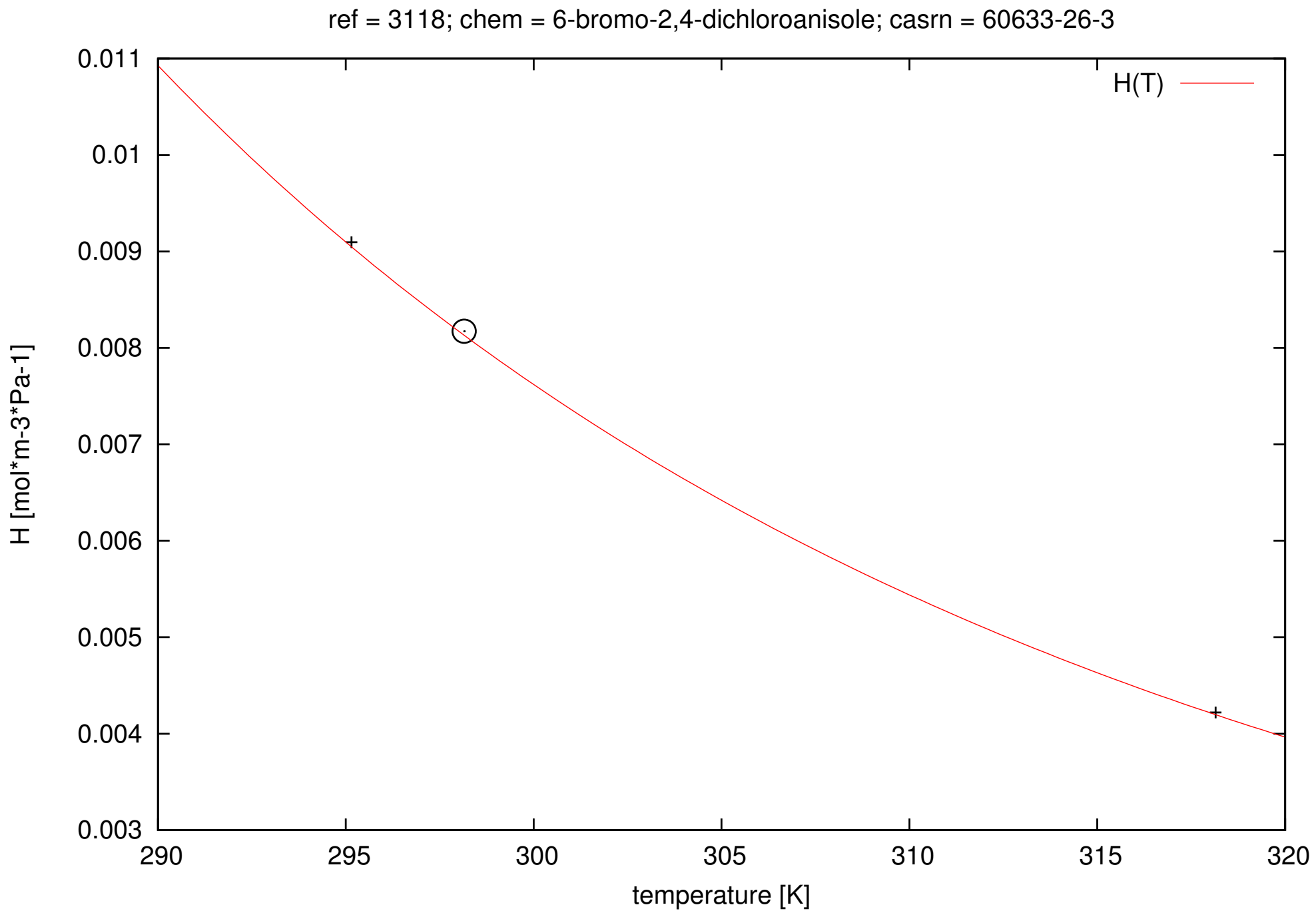

ref = 3117; chem = 2-methylpropane; casrn = 75-28-5
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0
270
275
280
285
290
295
300

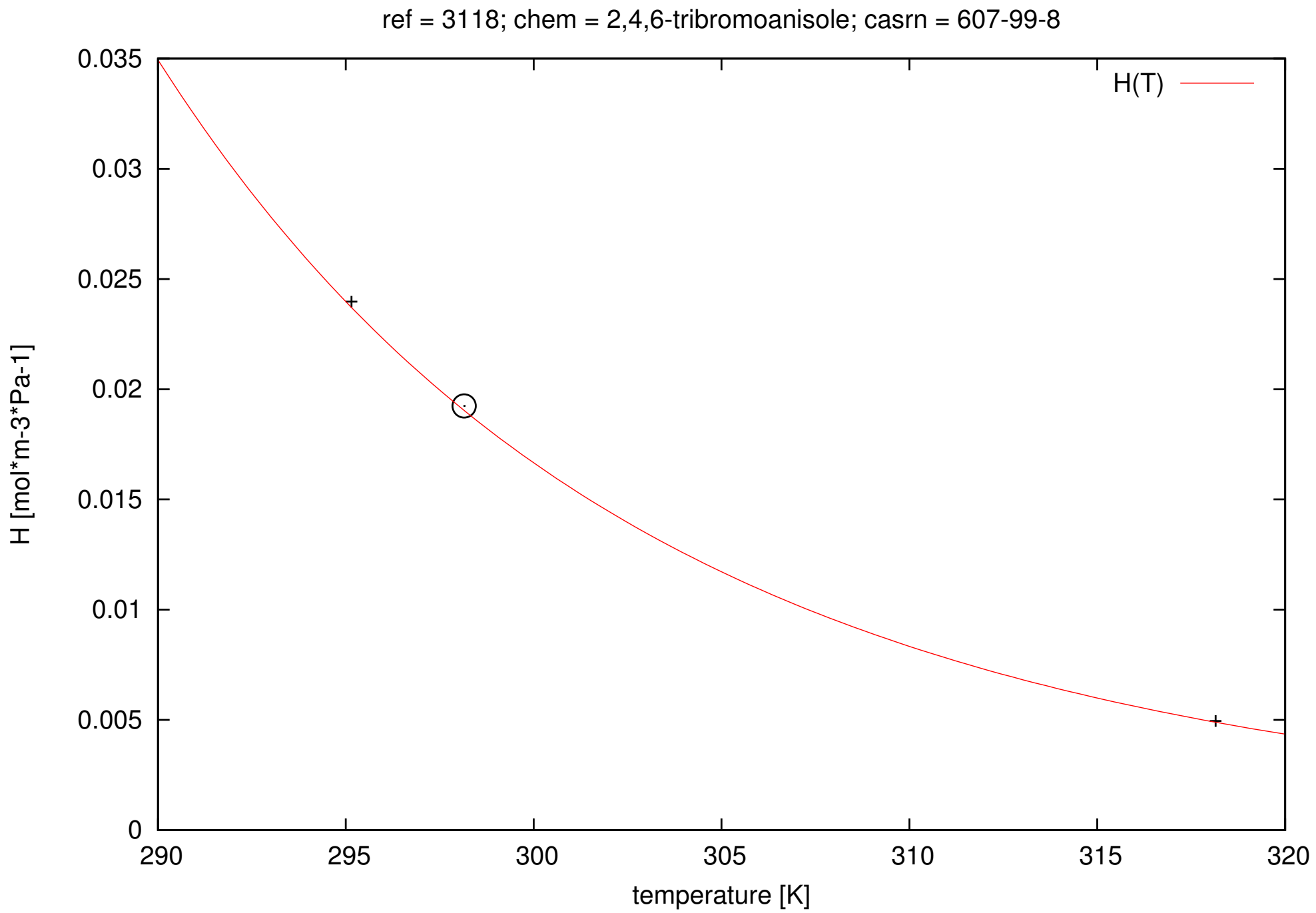

ref = 3118; chem = 6-bromo-2,5-dichloroanisole; casrn = 174913-14-5
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
290
295
300
305
310
315
320

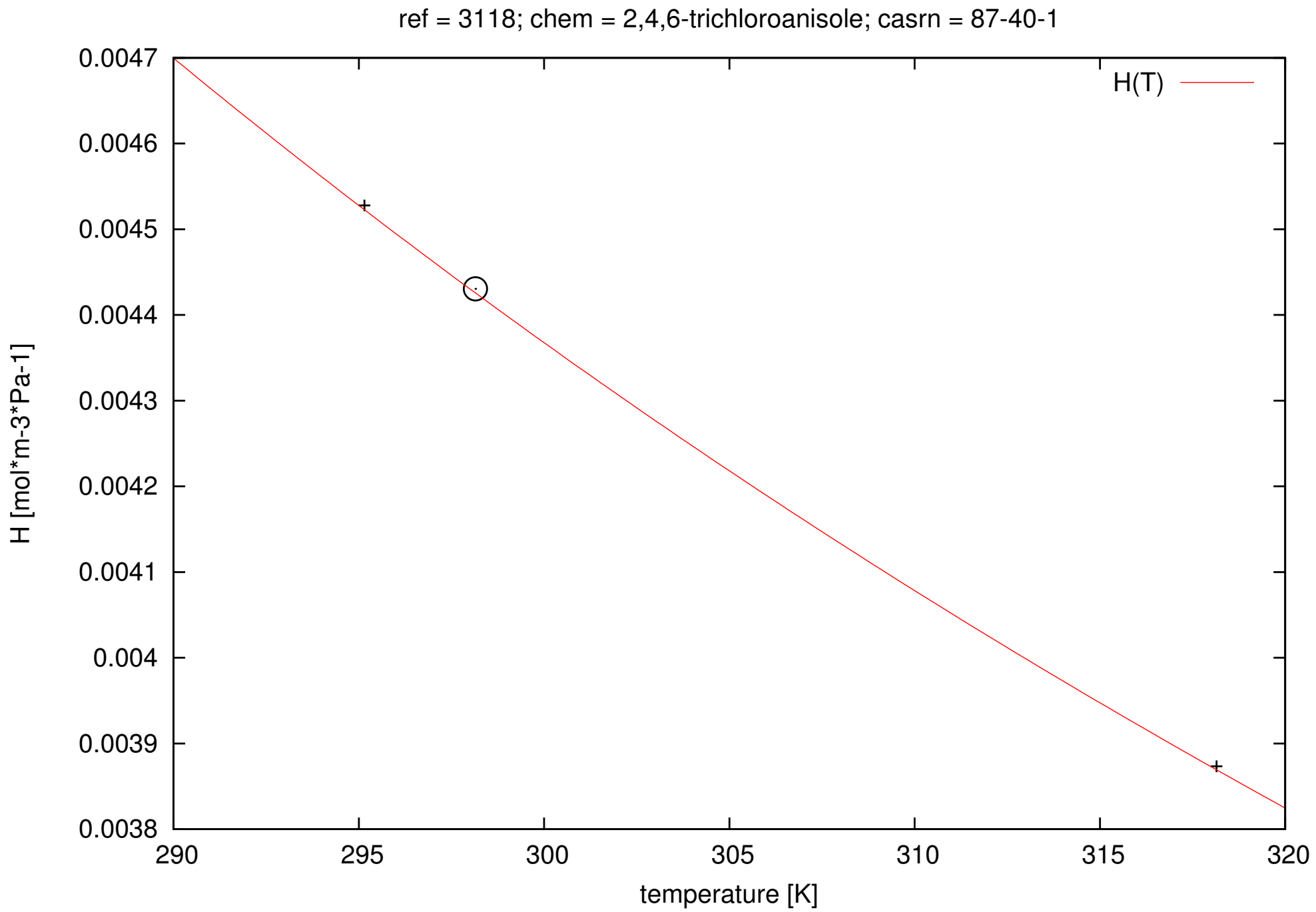

ref = 3118; chem = 2,6-dibromo-4-chloroanisole; casrn = 174913-44-1
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
290
295
300
305
310
315
320

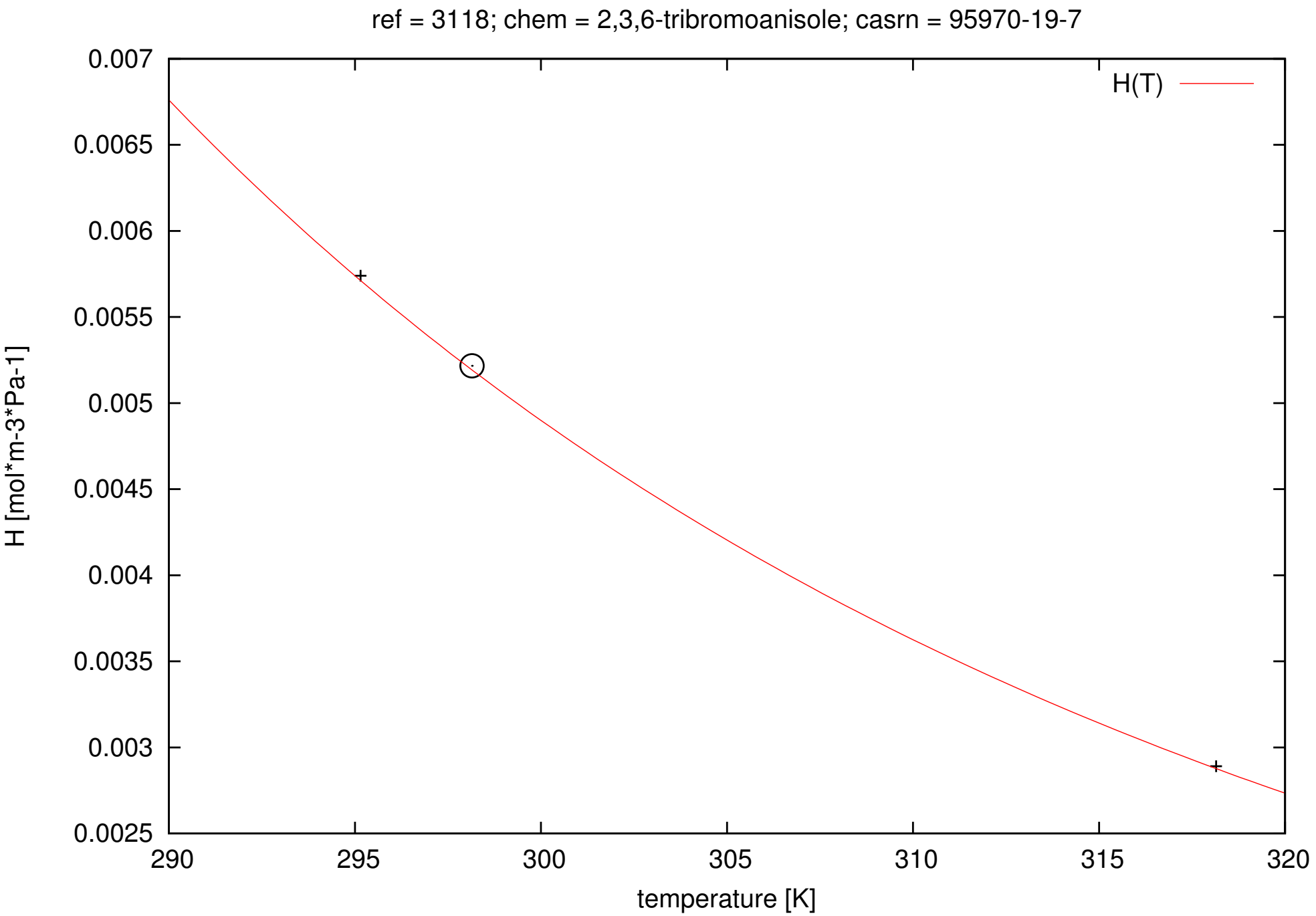

ref = 3118; chem = 4-bromo-2,6-dichloroanisole; casrn = 19240-91-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
290
295
300
305
310
315
320

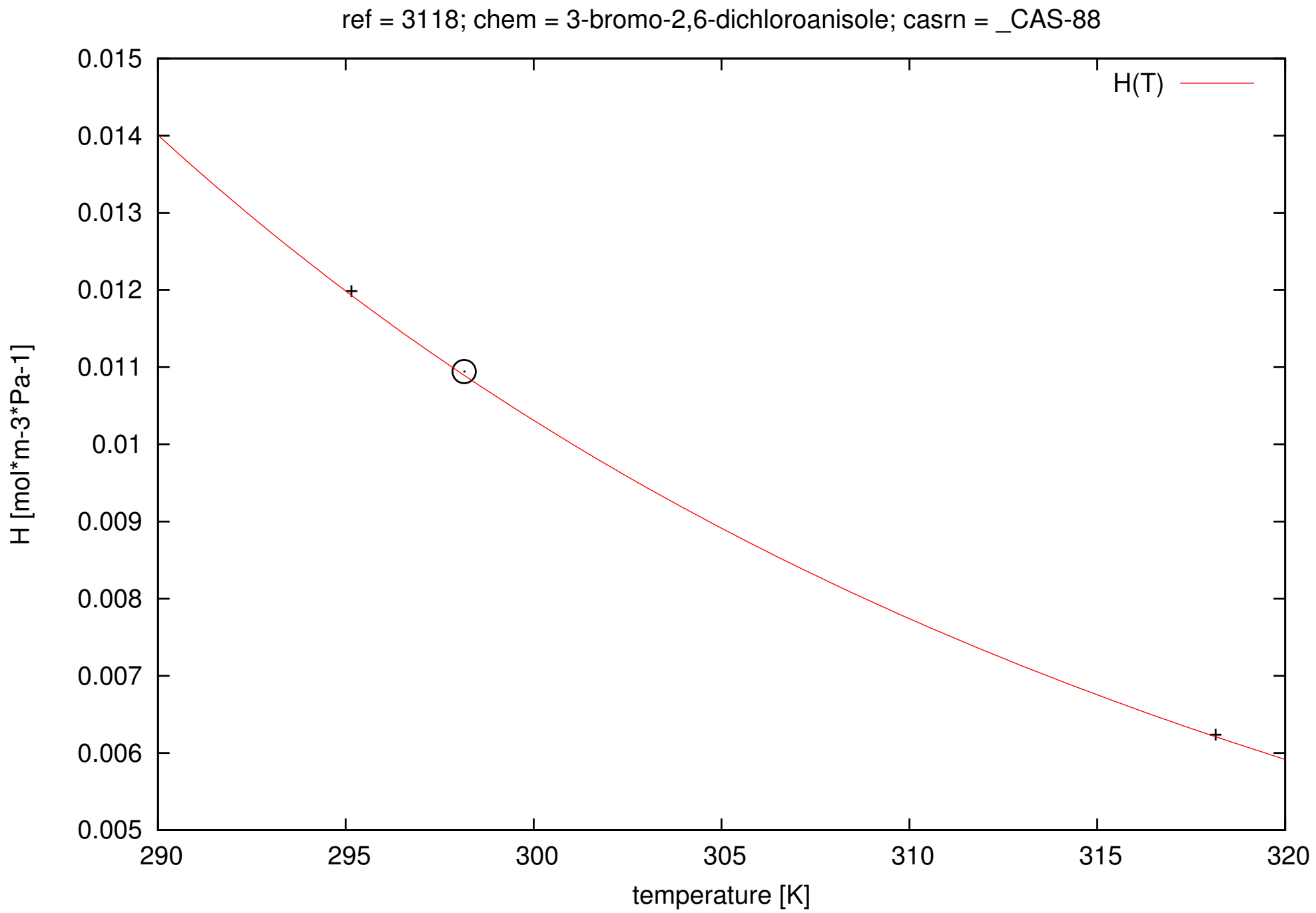

ref = 3118; chem = 2,3,6-trichloroanisole; casrn = 50375-10-5
H(T)
H [mol*m-3*Pa-1]
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
290
295
300
305
310
315
320
temperature [K]

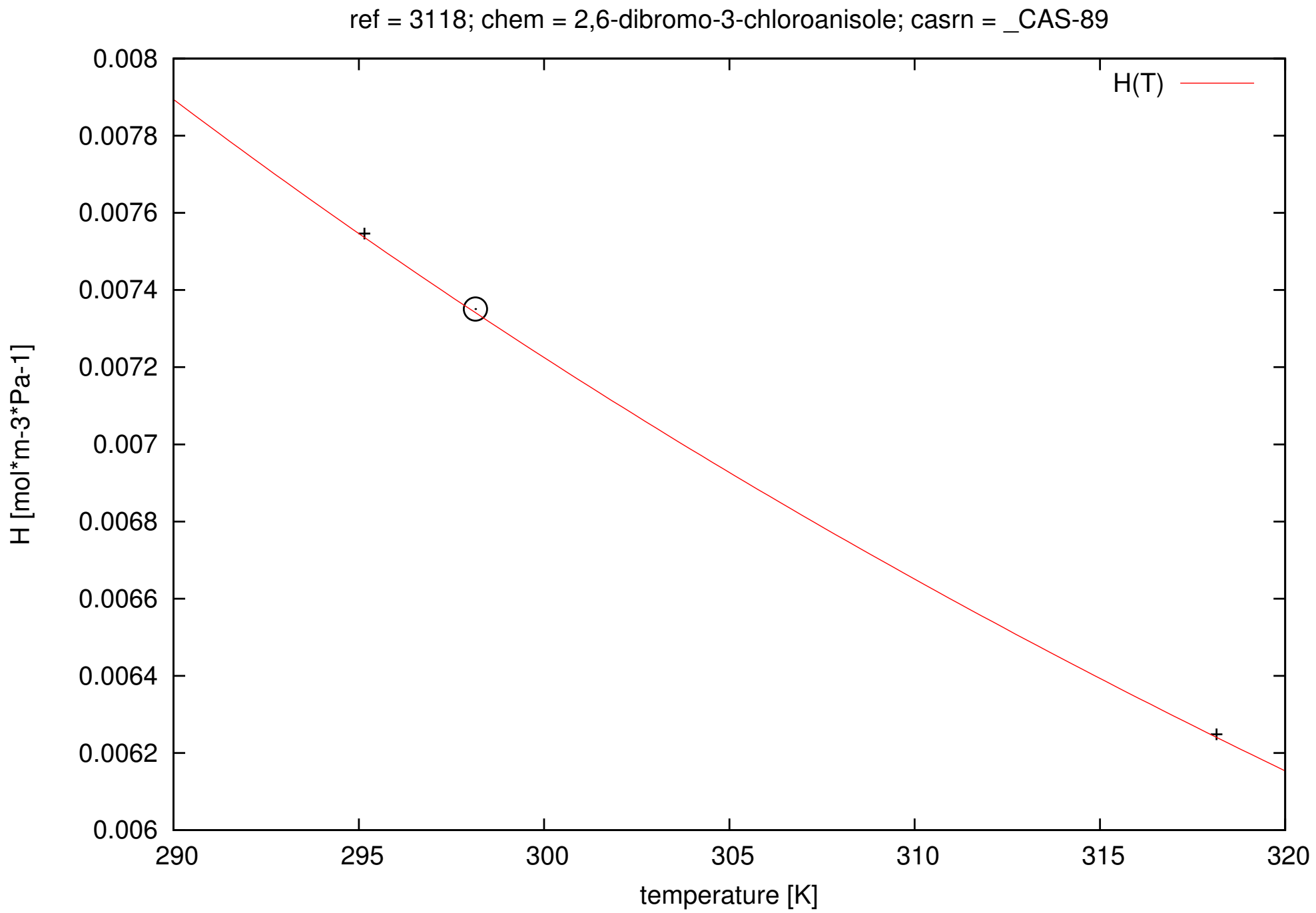

ref = 3118; chem = 6-bromo-2,4-dichloroanisole; casrn = 60633-26-3
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
290
295
300
305
310
315
320

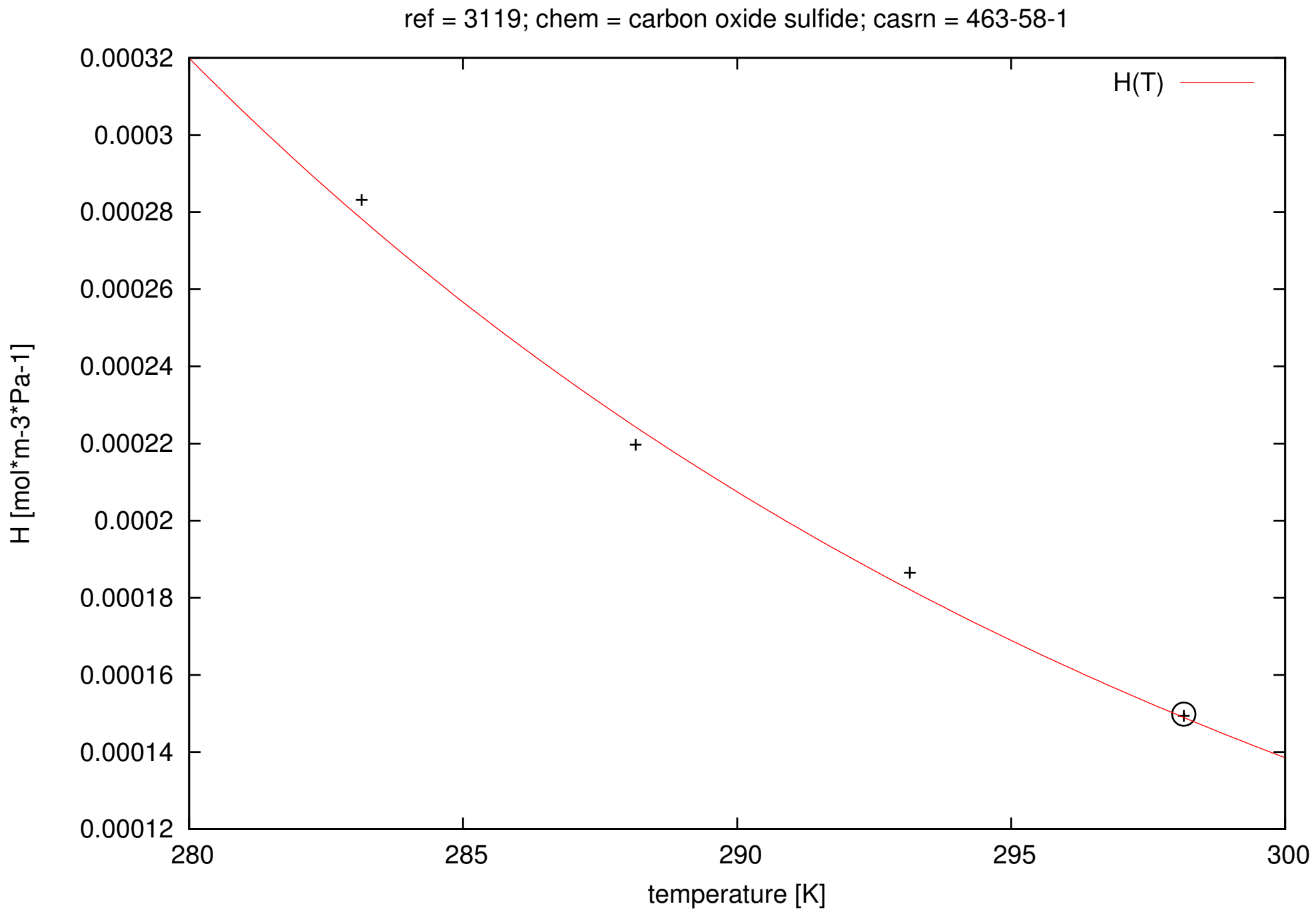

ref = 3118; chem = 2,4,6-tribromoanisole; casrn = 607-99-8
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
290
295
300
305
310
315
320

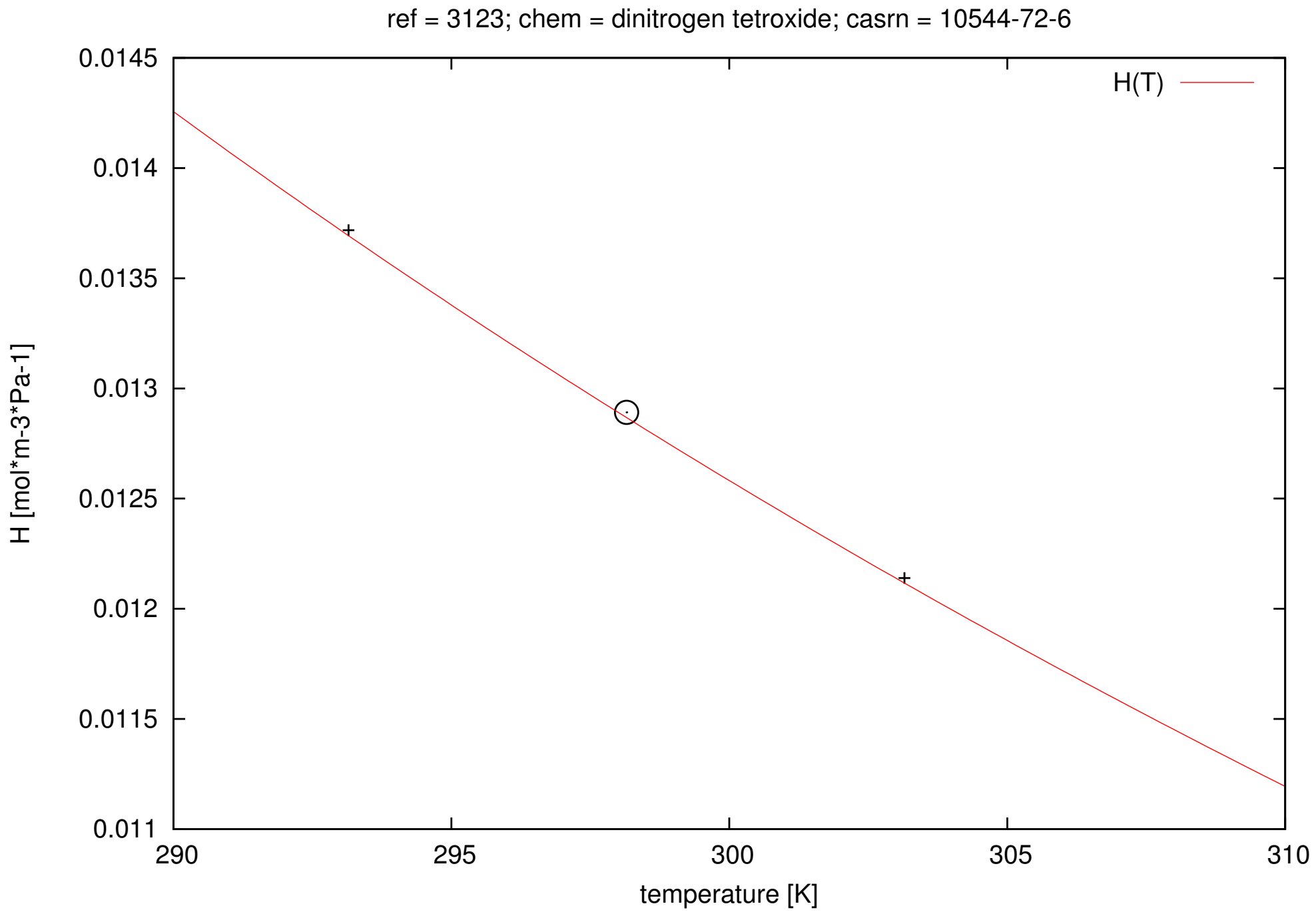

ref = 3118; chem = 2,4,6-trichloroanisole; casrn = 87-40-1
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0047
0.0046
0.0045
0.0044
0.0043
0.0042
0.0041
0.004
0.0039
0.0038
290
295
300
305
310
315
320

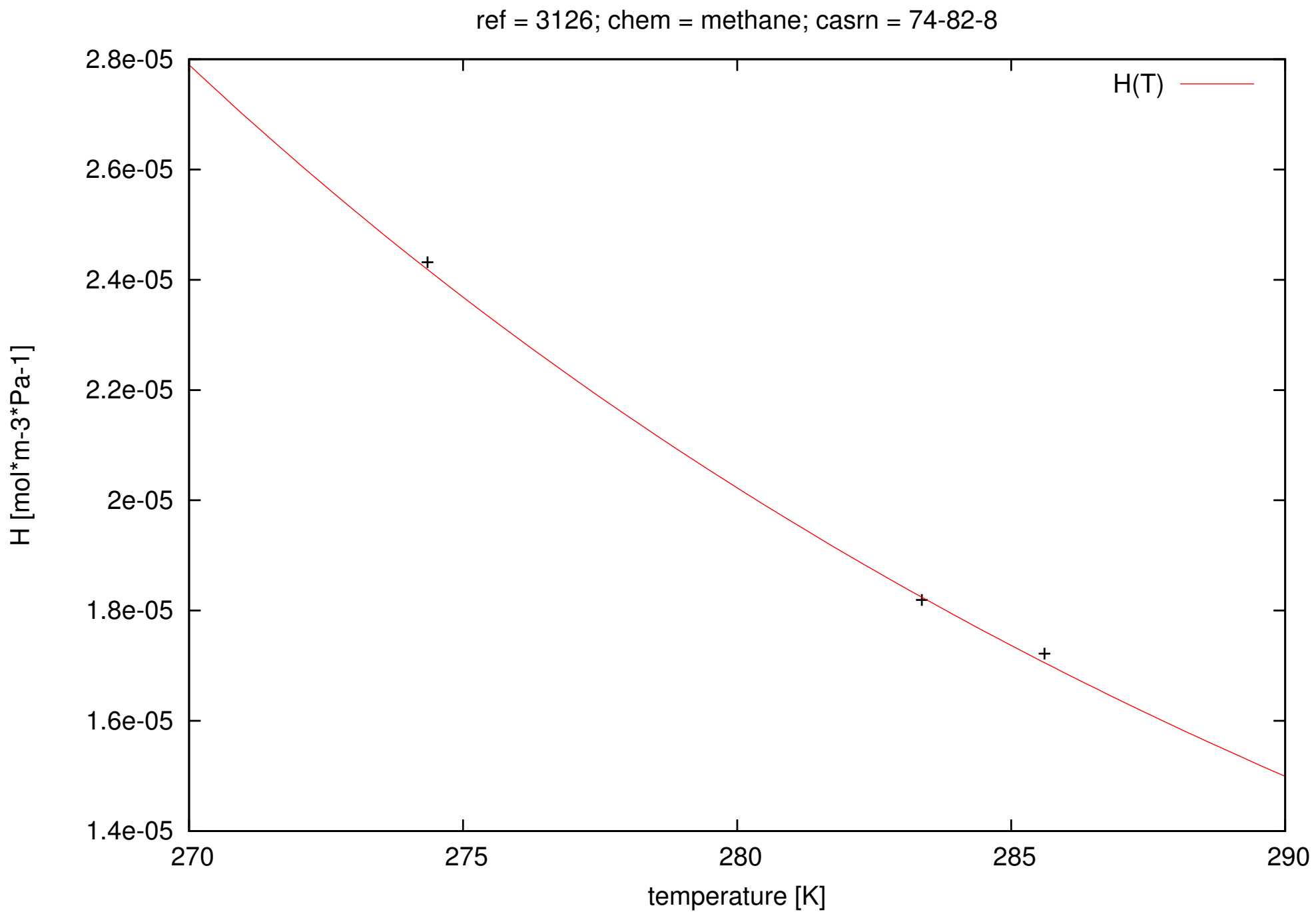

ref = 3118; chem = 2,3,6-tribromoanisole; casrn = 95970-19-7
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
290
295
300
305
310
315
320

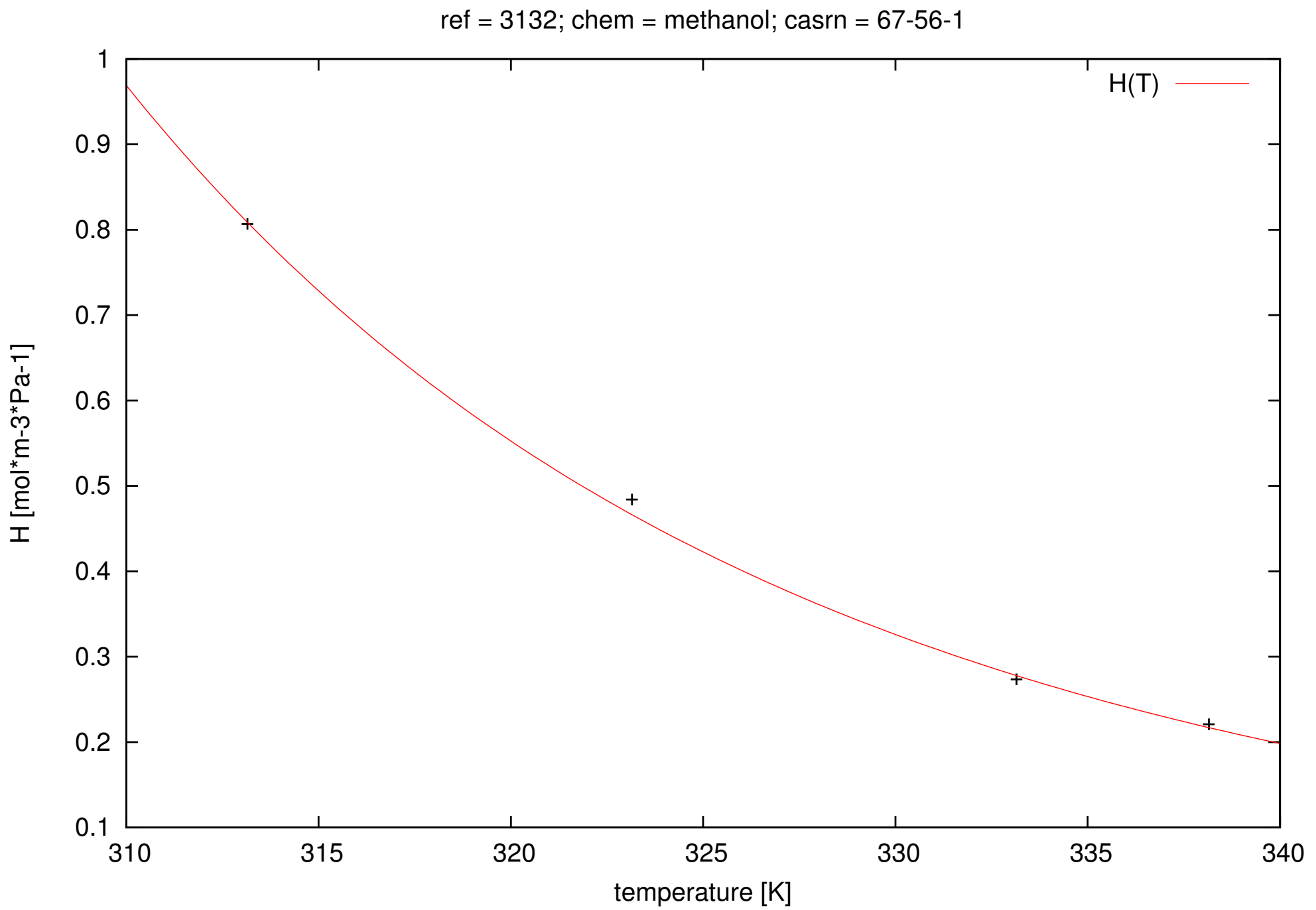

ref = 3118; chem = 3-bromo-2,6-dichloroanisole; casrn = _CAS-88
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
290
295
300
305
310
315
320


ref = 3118; chem = 2,6-dibromo-3-chloroanisole; casrn = _CAS-89
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.008
0.0078
0.0076
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
0.006
290
295
300
305
310
315
320


ref = 3119; chem = carbon oxide sulfide; casrn = 463-58-1
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.00032
0.0003
0.00028
0.00026
0.00024
0.00022
0.0002
0.00018
0.00016
0.00014
0.00012
280
285
290
295
300


ref = 3123; chem = dinitrogen tetroxide; casrn = 10544-72-6
H(T)
H [mol*m-3*Pa-1]
temperature [K]
0.0145
0.014
0.0135
0.013
0.0125
0.012
0.0115
0.011
290
295
300
305
310


ref = 3126; chem = methane; casrn = 74-82-8
H(T)
H [mol*m-3*Pa-1]
temperature [K]
2.8e-05
2.6e-05
2.4e-05
2.2e-05
2e-05
1.8e-05
1.6e-05
1.4e-05
270
275
280
285
290


ref = 3132; chem = methanol; casrn = 67-56-1
H(T)
H [mol*m-3*Pa-1]
temperature [K]
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
310
315
320
325
330
335
340