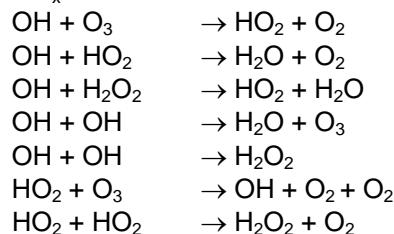
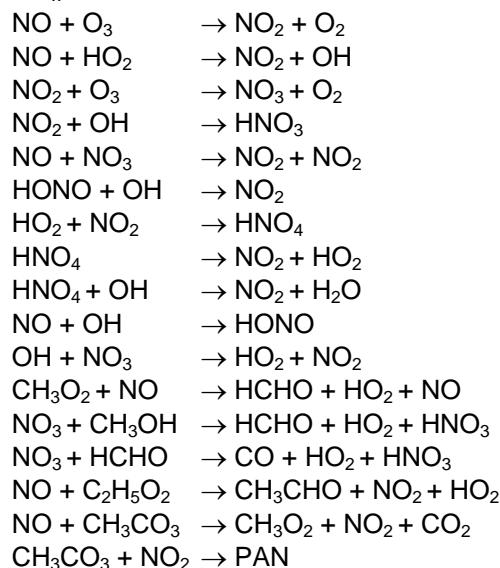


List of gas phase chemical reactions included in the model, rate constants are taken from Atkinson et al. 1997 unless otherwise noted in Table 5:

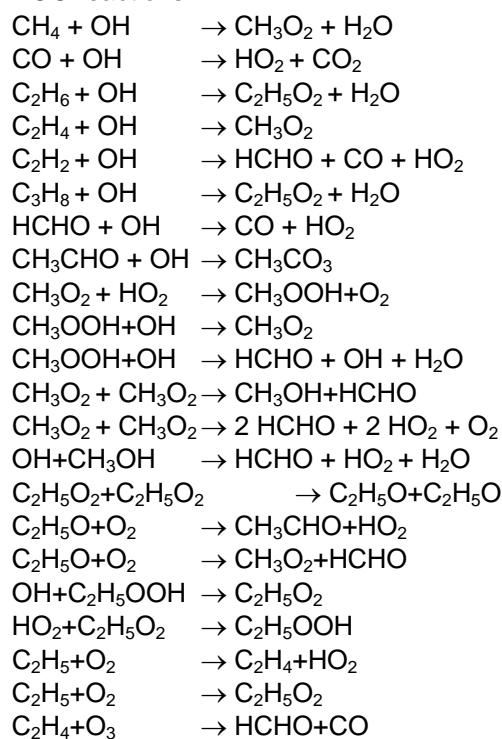
HO_x reaction



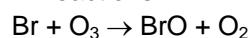
NO_x reactions

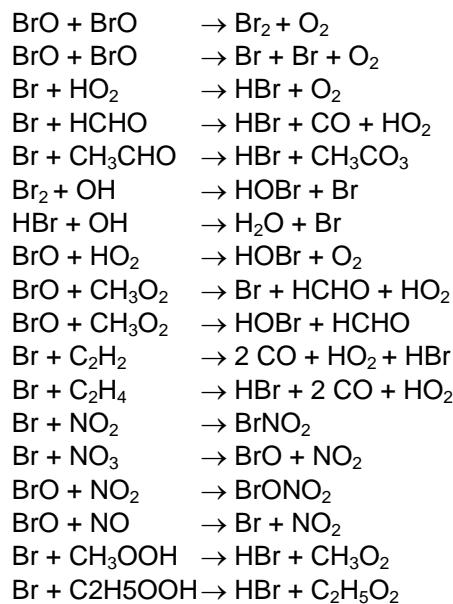


VOC reactions

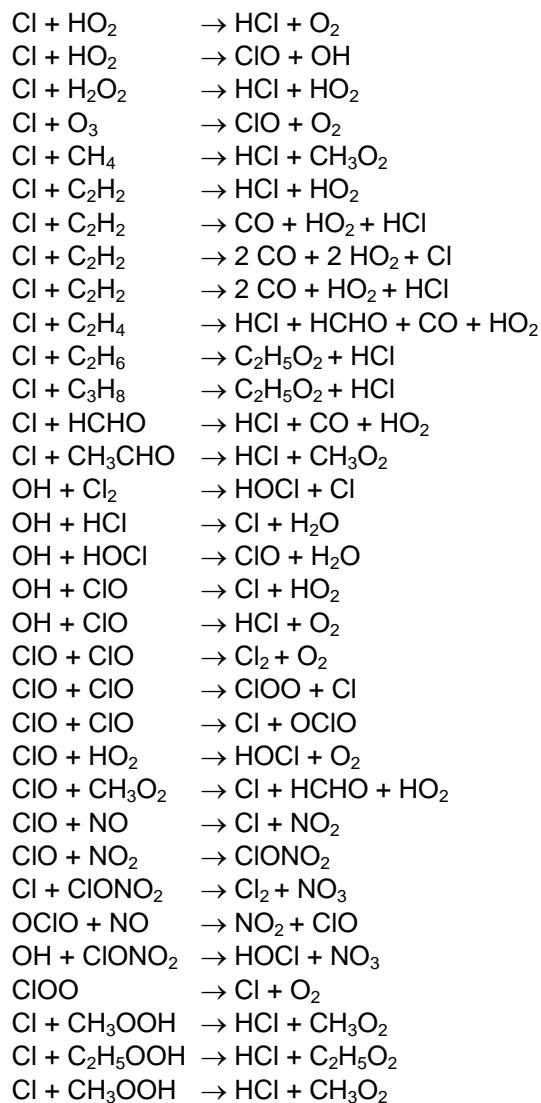


Br reactions





Cl reactions



Cl/Br reactions

