

Ordering of chemical reactions within a family

The ordering of families in the summary table is Ox, HOx, NOx, SOx, organic reactions, ClOx, FOx, BrOx, IOx, heterogeneous reactions.

Chemical reactions are listed as first reactant (usually an atom or radical) + second reactant (usually a molecule). The reaction ordering within a family is based on where the first reactant lies in the following ranking: 1) atoms (H, O, F, S, Cl, Br, I); 2) radicals a) HO, HO₂, NH₂, NO, NO₂; b) inorganic sulphur radicals; c) organic sulphur radicals; d) organic radicals (C_xH_y, C_xH_yO, C_xH_yO₂); and 3) closed shell molecules.