

oxoacids

Synonym: oxyacid (oxy-acid)

Oxoacids (and its variants oxyacids, oxo acids, oxy-acids, oxiacids, oxacids) is a traditional name for any acid having oxygen in the acidic group. The term stands in contradistinction to 'hydracids' (e.g. HCl) lacking oxygen. The term oxoacid now refers to a compound which contains oxygen, at least one other element, and at least one hydrogen bound to oxygen, and which produces a conjugate base by loss of positive hydrogen ion(s) (hydrons). E.g. $\text{P}(\text{OH})_3$, $\text{RC}(=\text{O})\text{OH}$, HOSO_2H , HOCl , $\text{HON}=\text{O}$, $(\text{HO})_2\text{SO}_2$, $\text{RP}(=\text{O})(\text{OH})_2$.

See also: oxo carboxylic acids

Source:

PAC, 1995, 67, 1307 (*Glossary of class names of organic compounds and reactivity intermediates based on structure (IUPAC Recommendations 1995)*) on page 1355
Red Book, p. 123