

Strong and Weak Acids and Bases

1. The following common acids are strong: HCl, HBr, HI, HNO₃, HClO₄, H₂SO₄

The following are some less common acids that are also strong: HClO₃, HBrO₃, HIO₃, H₂SeO₄

Assume all other acids are weak unless told otherwise.

Some weak acids: HF, HNO₂, HClO₂, [H₂SO₃] = SO₂ + H₂O, HC₂H₃O₂ = HOAc

2. All ionic hydroxides are strong bases, regardless of solubility. Bases that do not contain OH⁻ are weak.

Some strong bases: LiOH, NaOH, KOH, RbOH, CsOH, Mg(OH)₂, Ca(OH)₂, Sr(OH)₂, Ba(OH)₂

Some weak bases: NH₃, CH₃NH₂, C₂H₅NH₂

Not a base: CH₃OH, C₂H₅OH