

Acids and Bases

Strong Acids Strong Bases

HClO ₄	LiOH
H ₂ SO ₄	NaOH
HI	KOH
HBr	Ca(OH) ₂
HCl	Sr(OH) ₂
HNO ₃	BA(OH) ₂

Bronsted, Arrhenius, Lewis

Bronstead Arrhenius Lewis

A Bronsted-Lowry acid is anything that releases H ⁺	An Arrhenius acid is a substance that when added to water increases the concentration of H ⁺ ions present	A Lewis acid is therefore any substance, such as the H ⁺ ion, that can accept a pair of nonbonding electrons
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Bronsted-Lowry base is defined as anything that accepts H ⁺ ions	An Arrhenius base is a substance that when added to water increases the concentration of OH ⁻ ions present	A Lewis base is any substance, such as the OH ⁻ ion, that can donate a pair of nonbonding electrons
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By bronzeskier

cheatography.com/bronzeskier/

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