

What is an acid?

Is a compound that is dissolved in water and forms an acidic solution.

Always aqueous (aq).

Has a pH of less than 7 on the pH scale

pH means "power of hydrogen".

Has either a leading H⁺ ion like in HCl or has COOH at the end of the compound like in CH₃COOH



Properties of Acids

Sour taste (lemons, stomach acid)

React with metal to release H₂ gas

Conduct electricity in solution

Turn blue litmus paper red

Naming Acids:

1. Begin with regular ionic naming but add the word aqueous at the front

HCl_(aq) aqueous hydrogen chloride

H₂SO_{4(aq)} aqueous hydrogen sulfate

HNO_{2(aq)} aqueous hydrogen nitrite

2.

a. If the ionic name ends in "ide", like in aqueous hydrogen chloride, then the acid name would become "hydrochloric acid". ("ide" = hydro _____ic acid)

b. If the ionic name ends in "ate" like in aqueous hydrogen sulfate, then the acid name would be "sulfuric acid". ("ate" = _____ic acid)

c. If the ionic name ends in "ite" like in aqueous hydrogen nitrite, then the acid name would be "nitrous acid". ("ite" = _____ous acid)

Give the ionic name and the acid name for the following

