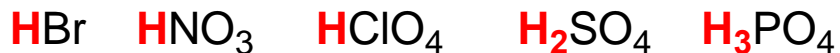


CONCEPT: LEWIS DOT STRUCTURES: ACIDS

- Generally, an acid is a covalent compound that begins with a **hydrogen ion** called the _____ ion.

Common Acids



Acetic Acid



- Acids are _____ covalent compounds that dissolve into **H⁺** and an anion when placed in solution.

Acid Dissolution



EXAMPLE: Draw the Lewis Dot Structure for the nitric acid, HNO₃.

STEP 0: Break up the acid into the **H⁺** ion and an anion,

- For the anion, follow Steps 1 to 6 to draw its Lewis Dot Structure.

STEP 7: Add the **H⁺** ion to surrounding element(s) with a formal charge of _____ (Remember opposite charges attract).

PRACTICE: Determine the Lewis Dot Structure for the following acid: H₂SO₄

CONCEPT: LEWIS DOT STRUCTURES: ACIDS

PRACTICE: Determine the Lewis Dot Structure for hydrocyanic acid: HCN

PRACTICE: Determine the Lewis Dot Structure for chloric acid: HClO₃

PRACTICE: Determine the Lewis Dot Structure for phosphoric acid: H₃PO₄