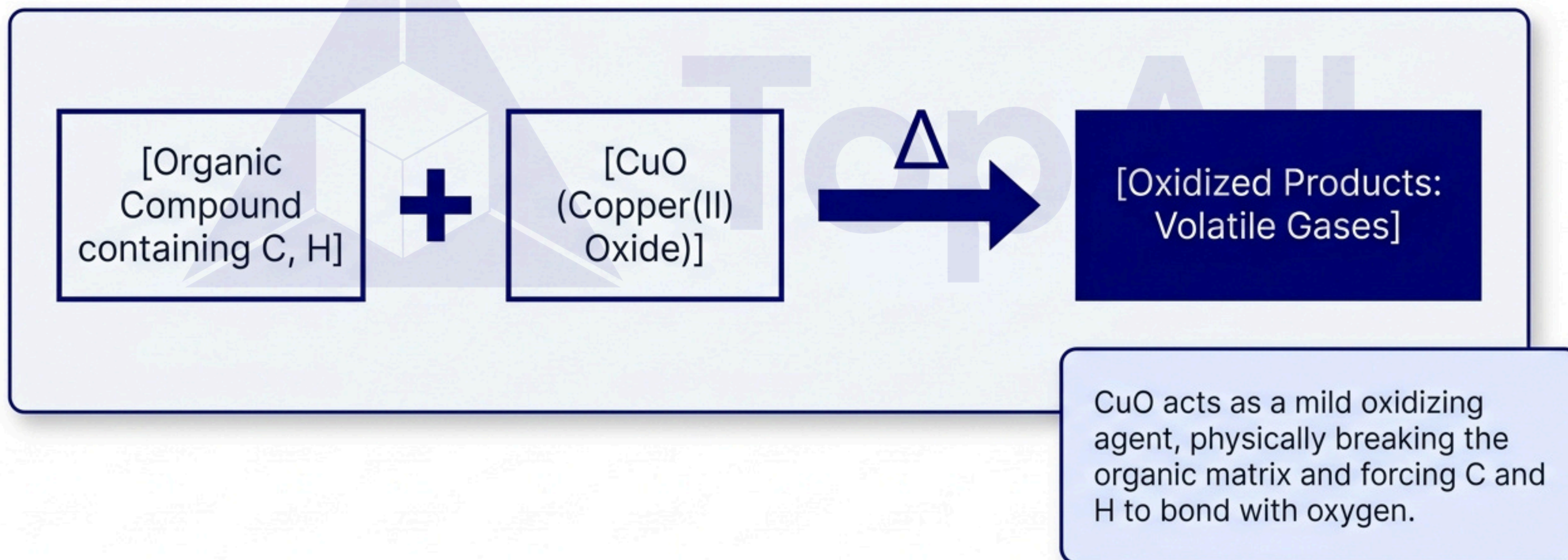


Liberating Carbon and Hydrogen

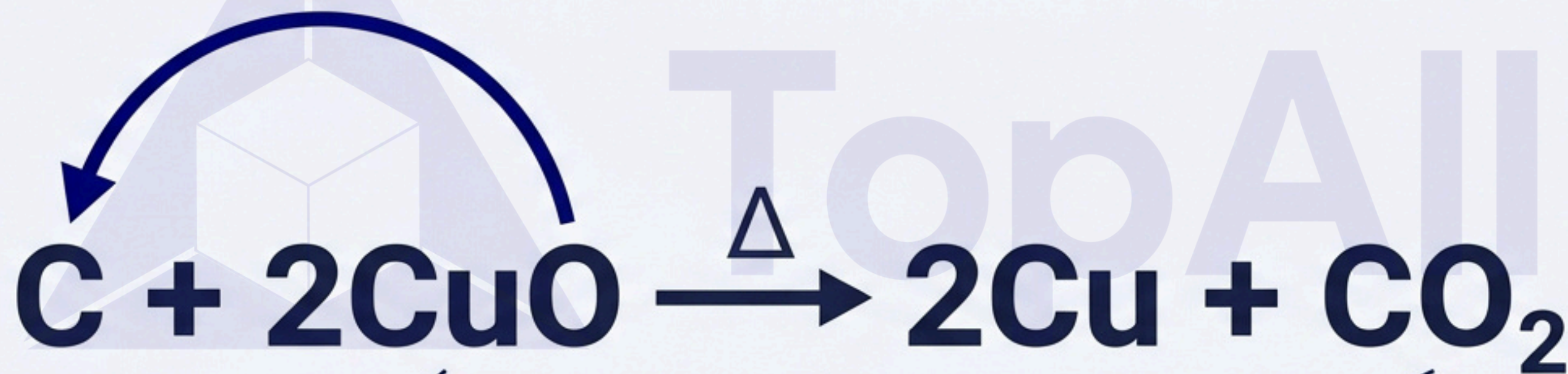
Carbon and hydrogen in an organic compound are detected by heating it with Copper(II) oxide (CuO).



The Carbon Pathway: Oxidation Step

Elemental Carbon is oxidized by Copper(II) Oxide to form Carbon Dioxide gas.

Equation Map

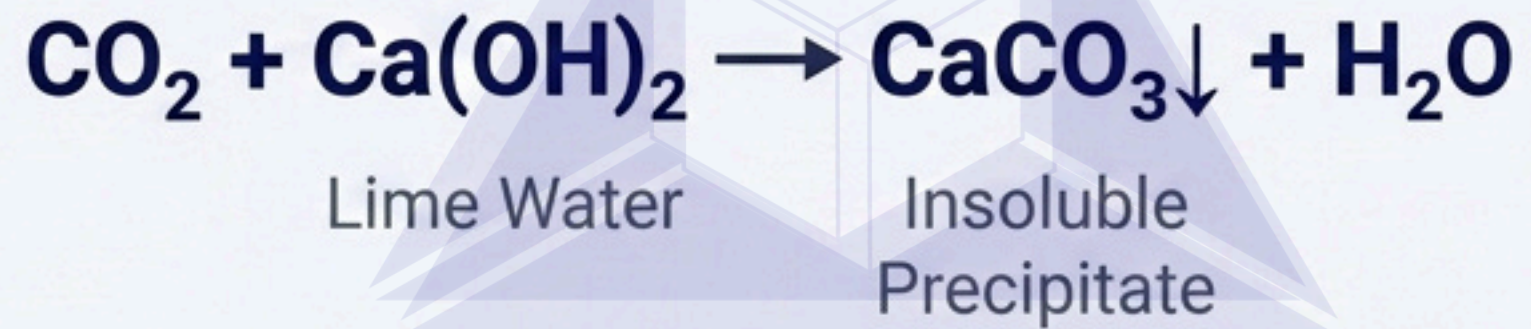


Oxidizing Agent
(Donates Oxygen)

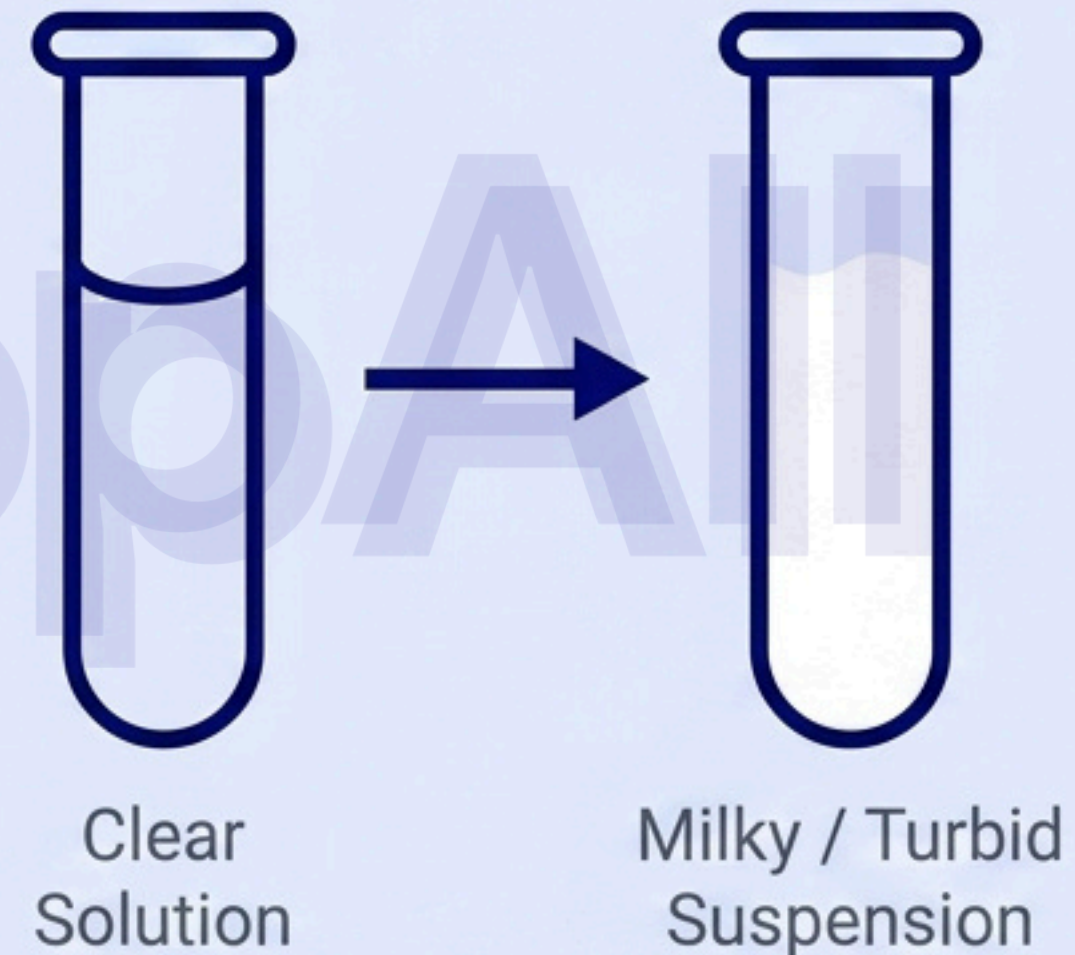
Target Intermediate
(Volatile Gas)

Diagnostic Test: Confirming Carbon

The Chemistry



The Observation



Rule: Carbon dioxide reacts with calcium hydroxide to develop a milky turbidity.



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$$E=mc^2$$



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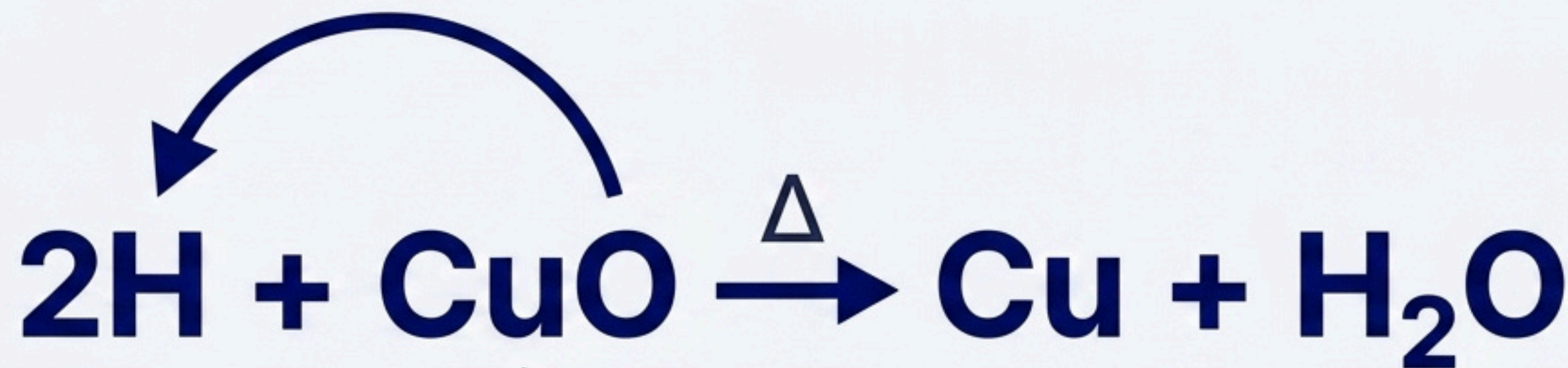


The Hydrogen Pathway: Oxidation Step

Elemental Hydrogen is oxidized by Copper(II) Oxide to form Water.

Practical Note: H₂O typically condenses as visible droplets on the cooler upper parts of the test tube.

Equation Map

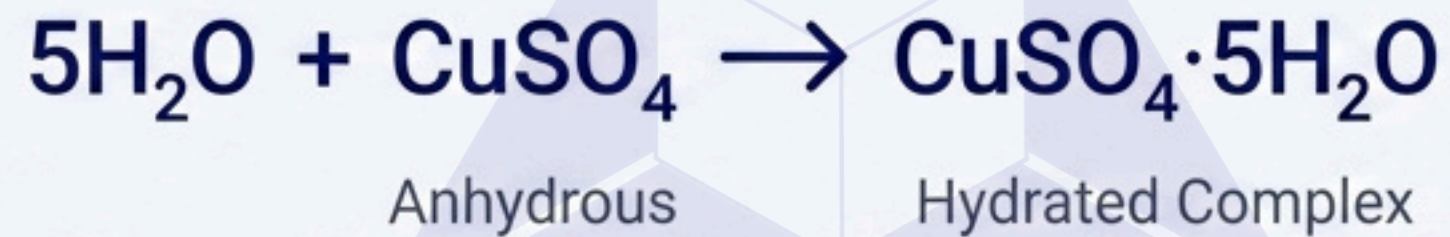


Oxidizing Agent

Target Intermediate
(Moisture / Steam)

Diagnostic Test: Confirming Hydrogen

The Chemistry



The Observation



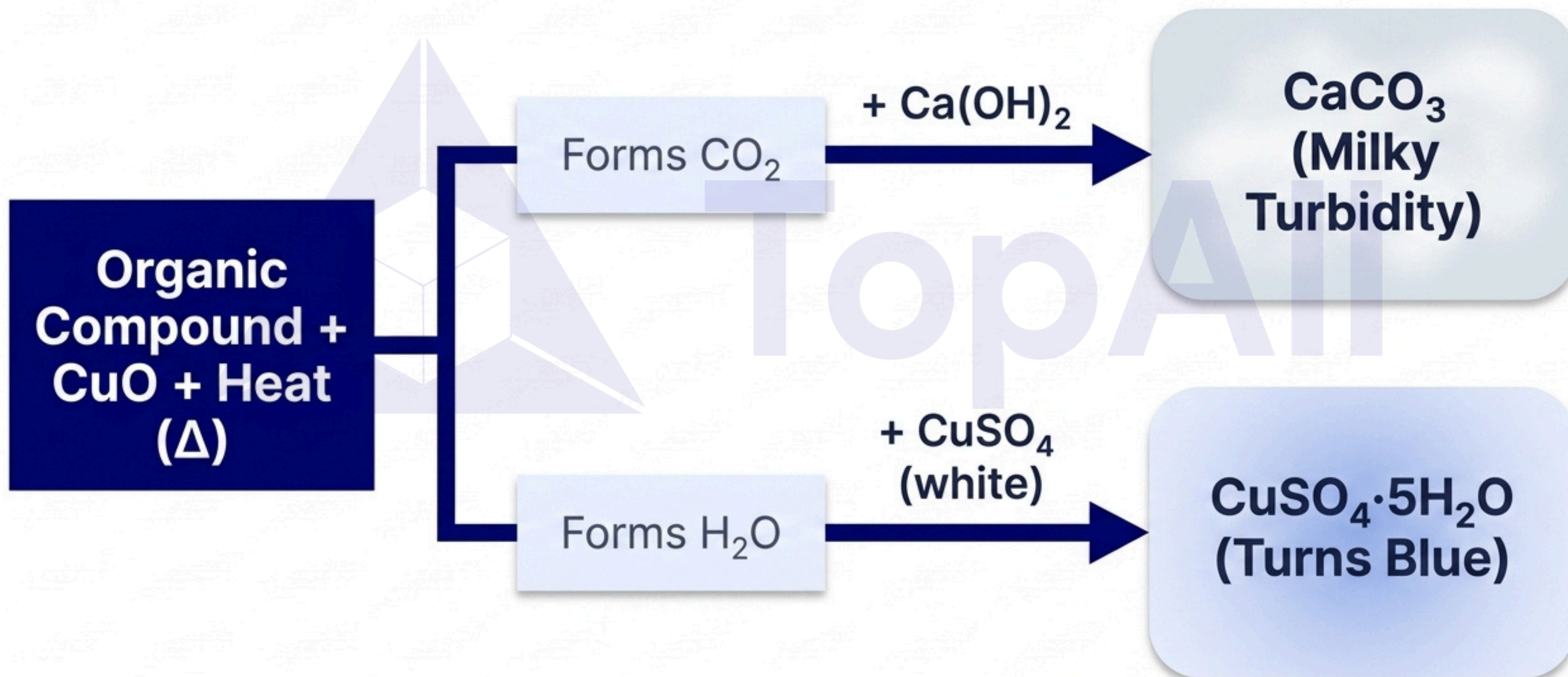
White Powder



Blue Crystals

Rule: Water hydrates anhydrous Copper(II) sulphate, causing a stark structural and color shift to blue.

Master Blueprint: C & H Detection





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