

## Alcohol + Potassium permanganate = Explosive reaction

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In this video explains an amazing reaction between Ethanol and Potassium Permanganate. For this reaction, we need Ethyl alcohol ( $\text{C}_2\text{H}_5\text{OH}$ ), concentrated Sulfuric Acid ( $\text{H}_2\text{SO}_4$ ) and Potassium Permanganate ( $\text{KMnO}_4$ ).

Firstly, let's put some potassium permanganate into our evaporation bowl and add several sulfuric acid drops. After a while, strong oxidizer Manganese oxide (VII) is formed from potassium permanganate. Let's take a droplet of manganese oxide and drip an ethanol droplet on it. At contact of alcohol with manganese oxide, alcohol instantly ignites. Let's do the same in this evaporation bowl. The reaction is very rough and sometimes is accompanied by an explosion. This is what happens: manganese oxide decays into manganese dioxide, and alcohol burns down forming a small amount of ethanal ( $\text{CH}_3\text{CHO}$ ).

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