

### Hydrogen Peroxide -- What is it good for?? Absolutely, a lot!!

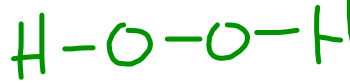
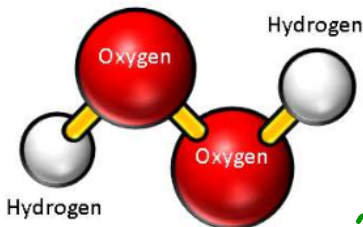
#### Hydrogen peroxide

##### Chemical Compound

Hydrogen peroxide is a chemical compound with the formula  $H_2O_2$ . In its pure form, it is a colourless liquid, slightly more viscous than water; however, for safety reasons it is normally used as an aqueous solution. [Wikipedia](#)

##### Uses:

*clearing cuts • bleaching • rocket fuel (oxidizing agent)*

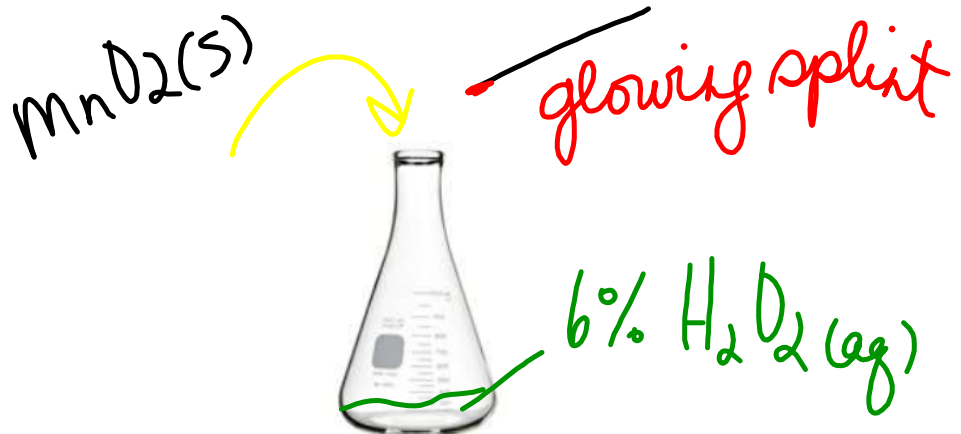


Why is  $H_2O_2(l)$  a compound?

*2 diffele chemically bonded*  
*6%  $H_2O_2(aq)$  is classified as a aqueous soln or homo mixt*  
*because 2 pure subs ( $H_2O + H_2O_2$ )*  
*cpd cpd*

**Purpose:** to catalyze the breakdown of hydrogen peroxide

**Set up:**



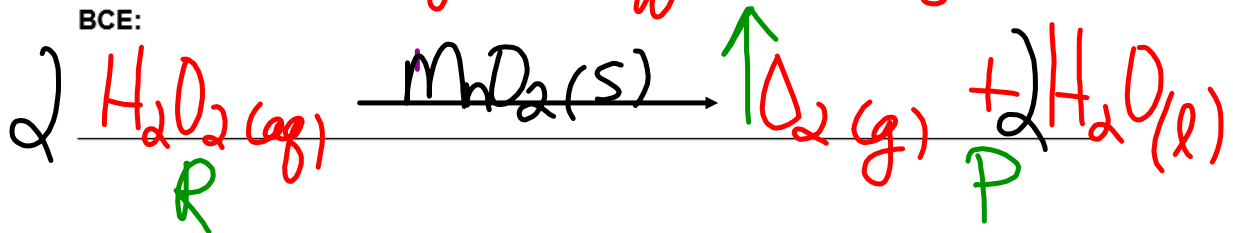
Observations:

Hydrogen Peroxide	$H_2O_2(aq)$	C & C
Manganese Dioxide	$MnO_2(s)$	black powder
During Rxn	bubbling	
Reaction to Glowing Splint	relit	

LST

gets bigger & brighter

BCE:



Catalysts:

• matchmaker = speed up a chem rxn but are not used up by the rxn.

Glowing Splint Test for  $O_2(g)$

G S T

