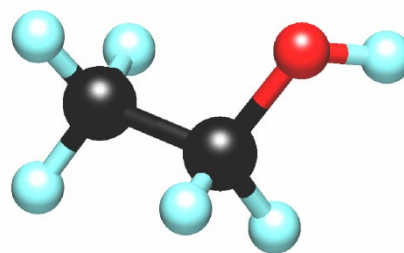


Alcohols



The key areas of study in this topic are:

- Properties of alcohols
- Reactions of alcohols

By the end of this topic I should be able to:

	Start	End
Explain <ul style="list-style-type: none"> • the polarity of alcohols • water solubility and low volatility of alcohols compared with alkanes as a result of hydrogen bonding 		
Classify of alcohols into primary, secondary and tertiary alcohols		
Describe and write equations for the combustion of alcohols		
Describe and write equations for the oxidation of alcohols by an oxidising agent, e.g. $K_2Cr_2O_7/H_2SO_4$), including: <ul style="list-style-type: none"> • oxidation of primary alcohols to form aldehydes and carboxylic acids • control of the oxidation product using different reaction conditions • oxidation of secondary alcohols to form ketones • resistance to oxidation of tertiary alcohols 		
Describe and write equations for the elimination of H_2O from alcohols in the presence of an acid catalyst (e.g. H_3PO_4 or H_2SO_4) and heat to form alkenes		
Describe and write equations for substitution reactions with halide ions in the presence of acid (e.g. $NaBr/H_2SO_4$) to form haloalkanes.		

In all topic areas you should be able to demonstrate and apply your knowledge and understanding.

