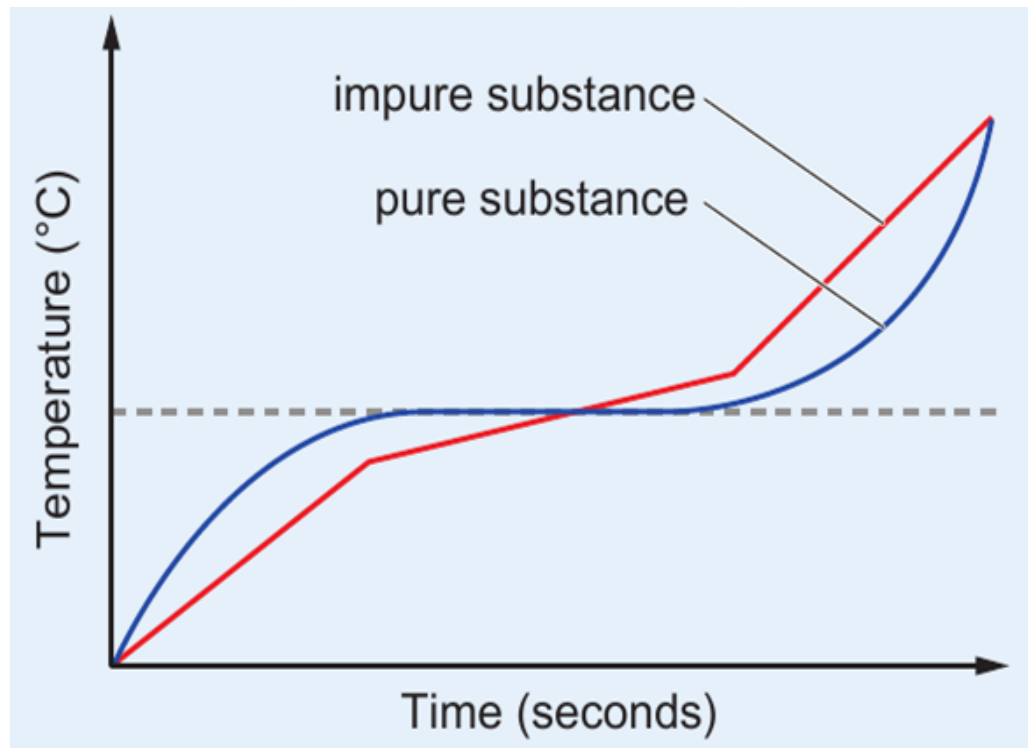


# Chemistry Topic 8: Chemical analysis

## 1. Keywords

Pure substance	A single element or compound not mixed with any other substance. They have a specific melting and boiling point
Melting point	The temperature at which a solid turns to a liquid
Boiling point	The temperature at which a liquid boils and turns into a gas.
Formulation	A mixture that has been designed as a useful product eg fuels, cleaning agents, medicines and fuels
Chromatography	Use to separate mixtures and identify substances
Rf	$\frac{\text{distance moved by substance}}{\text{distance moved by solvent}}$



## 2. Identification of common gases

Gas	Test	Observation
Hydrogen	Burning splint	Squeaky pop
Oxygen	Glowing splint	Relights
Carbon dioxide	Limewater	Goes cloudy
Chlorine	Damp Litmus paper	Bleached (goes white)

## 3. Graphs for Pure and Impure substances

Substance	M.P and B.P Observation
Pure	A specific value. A horizontal line on a graph (blue above).
Impure	A range of values. A non-horizontal line on a graph (red above).