

Physical Properties

- Something you can see, touch, hear, smell, taste
- Qualitative / Quantitative
 - measurable

Chemical Properties

- reactions
- non-reversible
- new substance formed
- toxicity
- stability
- combustability

Physical Properties

Qualitative

Quantitative

descriptive

- colour
- texture
- taste
- smell
- state (solid/liquid/gas)
- shape
- malleability
- ductility

- an amount / value

melting / boiling temperatures

density

viscosity

solubility

conductivity - electrical

- heat

Physical Changes

- no new substances formed
- Change in State
 - melting
 - boiling
 - freezing
 - condensing
- dissolving
- always reversible

Chemical Changes

- at least 1 new substance formed
- substances formed have new properties
- non-reversible / very difficult to reverse

Examples:

log in a fire Chemical

ice melting Physical

copper stretched into wiring Physical

salt dissolved in water Physical

tarnishing of silver Chemical

iron rusting Chemical