

# PURE SUBSTANCES

## Key Revision Facts: GCSE Science

**Pure Substance** - a pure substance contains only one element or compound.

**Mixture** - a mixture is of at least two elements or compounds. Mixtures are not like compounds because they can be easily separated.

**Impurity** - is a small quantity of another substance in an otherwise pure substance.

### Distinguishing between pure substances and mixtures

The melting point of a substance can help to identify if the substance is pure or impure.

- Pure substances have sharp melting points
- Mixtures melt over a range of temperatures

The **melting point range** of a substance is the temperature range from which the first crystal starts to melt, to the temperature at which the last crystal finishes melting.

Pure substances can be identified by comparing the melting point found in the experiment with published reference data of what the melting point should be. **Impure substances tend to have a slightly lower melting point than the pure substance, and a broader melting temperature range.**

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## VERSION INFORMATION

Date	Arthur	Comment
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