

Structures: question types

1 Distinguishing if x is ionic/covalent compound

- Melt solid into liquid state / (sol. in water) dissolve in excess distilled water.
- Using wires, connect (s) / (aq) to electrode and light bulb.
- If the light bulb lights up, it is an ionic compound.

2 Distinguishing substances

- Distinguish KBr, glucose, SiO_2 .
- Dissolve 3 substances separately into excess distilled water.
 - > SiO_2 is the substance which remains undissolved.
- For the other substances, they are colourless solutions.
Test the electrical conductivity w/ light bulb connected to battery.
 - > The one w/ light bulb lighted up is KBr.
 - > The one not lighted up is SiO_2 .