## Properties of Ionic and Covalent Compounds DATA TABLE

#### Part A: Appearance and Melting Point

|  |  |  |
| --- | --- | --- |
| Substance | Description of Substance | Order of Melting |
| Sugar |  |  |
| Sodium Chloride |  |  |
| Cinnamon |  |  |
| Cumin |  |  |
| Sodium Bicarbonate |  |  |
| Cream of Tartar |  |  |

**Parts B & C: Solubility & Conductivity**

|  |  |  |  |
| --- | --- | --- | --- |
| Substance | Water-soluble | Isopropyl Alcohol-soluble | Electrical conductivity |
| Sugar |  |  |  |
| Sodium Chloride |  |  |  |
| Cinnamon |  |  |  |
| Cumin |  |  |  |
| Sodium Bicarbonate |  |  |  |
| Cream of Tartar |  |  |  |

#### Part D: Classifying the compounds

|  |  |
| --- | --- |
| Substance | Prediction - Ionic or Covalent |
| Sugar |  |
| Sodium Chloride |  |
| Cinnamon |  |
| Cumin |  |
| Sodium Bicarbonate |  |
| Cream of Tartar |  |