

Applying Scientific Methods

A college chemistry student is studying the properties of four unknown compounds, W, X, Y, and Z. She has been informed that one of them is ionic and that the other three are covalent. Of the latter, she has been told that the attractions between the formula units are dispersion forces in one case, hydrogen bonds in another, and covalent (network) bonds in another. She has been asked to determine the type of attractions for each substance. In an attempt to do so, she carries out experiments that reveal information about the substances' properties. Use this information to answer the questions that follow.

Property	Unknown W	Unknown X	Unknown Y	Unknown Z
Hardness of solid	soft	soft	brittle	brittle
Melting point (°C)	-10	-200	1500	3000
Boiling point (°C)	120	-150	2500	4500
Solubility in polar solvent	very soluble	insoluble	very soluble	insoluble
Solubility in nonpolar solvent	insoluble	very soluble	insoluble	insoluble
Conductivity of solid	nonconducting	nonconducting	nonconducting	nonconducting
Conductivity of liquid	nonconducting	nonconducting	conducting	nonconducting

- On the basis of the results of her hardness test, the student concludes that unknowns W and X are covalent substances, and that either Y or Z is the ionic substance. Comment on the soundness of her conclusion, given only the hardness information.

Chemistry Chapter Assessment Applying Scientific Methods Answers

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