
1. Which formula represents a molecular compound?

- A) HI B) KI C) KCl D) LiCl

2. Which formula represents a molecular compound?

- A) Kr B) LiOH C) N₂O₄ D) NaI

3. Which characteristic is a property of molecular substances?

- A) good heat conductivity
B) good electrical conductivity
C) low melting point
D) high melting point

4. A chemist performs the same tests on two homogeneous white crystalline solids, *A* and *B*. The results are shown in the table below.

	Solid A	Solid B
Melting Point	High, 801°C	Low, decomposes at 186°C
Solubility in H₂O (grams per 100.0 g H₂O at 0°C)	35.7	3.2
Electrical Conductivity (in aqueous solution)	Good conductor	Nonconductor

The results of these tests suggest that

- A) both solids contain only ionic bonds
B) both solids contain only covalent bonds
C) solid *A* contains only covalent bonds and solid *B* contains only ionic bonds
D) solid *A* contains only ionic bonds and solid *B* contains only covalent bonds

5. Which type of substance is soft, has a low melting point, and is a poor conductor of heat and electricity?

- A) network solid B) molecular solid
C) metallic solid D) ionic solid

6. Which terms describe a substance that has a low melting point and poor electrical conductivity?

- A) covalent and metallic
B) covalent and molecular
C) ionic and molecular
D) ionic and metallic

7. Which elements can react to produce a molecular compound?

- A) calcium and chlorine
B) hydrogen and sulfur
C) lithium and fluorine
D) magnesium and oxygen
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