

Consider the table of data below and then answer the questions that follow.

Substance	Melting Point / °C	Boiling Point / °C	Electrical Conductivity		
			When Solid	When Liquid (molten)	When in solution (dissolved in water)
A	0	100	Insulator	Poor	-
B	396	980	Insulator	Good	Good
C	-55	-2	Insulator	Insulator	Insulator
D	-9	58	Insulator	Insulator	Good
E	200	600	Insulator	Good	Good
F	98	892	Good	Good	Chemical reaction occurs
G	-39	360	Good	Good	Does not dissolve

- (a) Which substances are liquids at room temperature (approx. 25°C)?
- (b) Which substances are metals?
- (c) Which two substances are ionic?
- (d) In what physical state would substance C be found at 50°C?
- (e) Which substance is molecular, but changes to ionic when dissolved in water?
- (f) Which three substances are made up from covalent molecules?
- (g) Of your three answers to part (f), which is most likely to have the strongest intermolecular bonds, which has the weakest?