



Reactions and Elements

10 Which of the following statements about the alkali metal rubidium is correct?

- A Rubidium and chlorine are formed when an aqueous solution of rubidium chloride is electrolysed.
- B Rubidium has higher melting and boiling points than sodium.
- C Rubidium reacts more slowly with water than sodium, forming hydrogen gas.
- D Rubidium is stored under oil.
- E Rubidium sulfate has the formula RbSO_4 .

2015

14 Azurite is a mineral made up of a mixture of CuCO_3 and $\text{Cu}(\text{OH})_2$.

Which one of the following is a possible formula of azurite?

- A $\text{Cu}_3\text{CH}_4\text{O}_4$
- B $\text{Cu}_3\text{CH}_4\text{O}_5$
- C $\text{Cu}_3\text{CH}_4\text{O}_6$
- D $\text{Cu}_3\text{C}_2\text{H}_2\text{O}_6$
- E $\text{Cu}_3\text{C}_2\text{H}_2\text{O}_7$
- F $\text{Cu}_3\text{C}_2\text{H}_2\text{O}_8$

2012

18 Magnesium hydrogen phosphate contains the following ions: Mg^{2+} , H^+ and PO_4^{3-} .

Which one of the following is a possible formula for magnesium hydrogen phosphate?

- A $\text{Mg}(\text{HPO}_4)_2$
- B $\text{Mg}(\text{H}_2\text{PO}_4)_2$
- C MgH_3PO_4
- D $\text{Mg}(\text{H}_3\text{PO}_4)_2$
- E Mg_2HPO_4
- F $\text{Mg}_2\text{H}_2\text{PO}_4$

2010