

Exemplar Problems

Q10. Amphoteric hydroxides react with both alkalis and acids. 'Which of the following group 2 metal hydroxides is soluble in sodium hydroxide?

(a) $\text{Be}(\text{OH})_2$

(b) $\text{Mg}(\text{OH})_2$

(c) $\text{Ca}(\text{OH})_2$

(d) $\text{Ba}(\text{OH})_2$

Sol: (a) $\text{Be}(\text{OH})_2$ reacts with NaOH to give beryllate ion, becoming soluble in it.

