Answer on Question#38143-Chemistry-Inorganic Chemistry

Question

What is the definition of a metal phosphonate?

Answer

Metal phosphonate is a salt of a phosphonic acid – a diprotic acid of general formula:



wherein R is an alkyl group.

For example, sodium phosphonates are formed from phosphonic acid as follows

 $\begin{array}{c} O \\ R \\ P \\ OH \\ H \\ OH \\ H_2O \\ H_2O$

In case of bivalent metals (e.g. Ca) the formula of metal phosphonate is



In case of trivalent metals (e.g. Al) the formula of metal phosphonate is

