Related Problems with Solutions
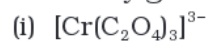
Problem 3:

9.9   How many geometrical isomers are possible in the following coordination entities?

(i) $[Cr(C_2O_4)_3]^{3-}$ (ii) $[Co(NH_3)_3Cl_3]$

Solution:

Ans: (i) $[Cr(C_2O_4)_3]^{3-}$ => No geometrical isomers are possible in this coordination entity.

(ii) $[Co(NH_3)_3 Cl_3]$ => Two geometrical isomers are possible (fac and mer) in this coordination entity.