Related Problems with Solutions

Problem 1:

9.7 Using IUPAC norms write the systematic names of the following:

(i) $[Co(NH_3)_6]Cl_3$
(ii) $[Pt(NH_3)_2Cl(NH_2CH_3)]Cl$
(iii) $[Ti(H_2O)_6]^{3+}$
(iv) $[Co(NH_3)_4Cl(NO_2)]Cl$
(v) $[Mn(H_2O)_6]^{2+}$
(vi) $[NiCl_4]^{2-}$
(vii) $[Ni(NH_3)_6]Cl_2$
(viii) $[Co(en)_3]^{3+}$
(ix) $[Ni(CO)_4]$

Solution:

Ans: (i) Hexaammine cobalt (III) chloride.

(ii) Diammine chlorido (methylamine) platinum (II) chloride.

(iii) Hexaaquatitanium (III) ion.

(iv) Tetraammine chlorido nitrito-N-cobalt (IV) chloride.

(v)Hexaaquamanganese (II) ion.

(vi)Tetrachloridonickelate (II) ion.

(vii)Hexaammine nickel (II) chloride.

(viii)Tris (ethane -1,2-diamine) cobalt (III) ion.

(ix) Tetra carbonyl nickel (0).