

Marks
4

- Consider the complex $[\text{CoCl}_2(\text{NH}_3)_4]\text{Cl}\cdot 2\text{H}_2\text{O}$.

Write the systematic name of this complex.

What type(s) of isomerism is/are possible for this complex?

How many *d* electrons are there in the cobalt in this complex?

What oxidation state of platinum has the same number of valence shell *d* electrons as the cobalt in this complex?