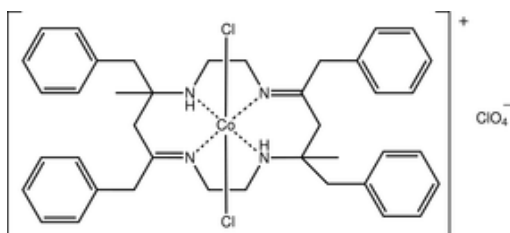


metal-organic compounds

[html](#)
[pdf](#)
[cif](#)
[3d view](#)
[structure factors](#)
[supplementary materials](#)
[checkCIF](#)
[similar papers](#)
[contents of issue](#)
[open access](#)



Acta Cryst. (2011). E67, m1722-m1723 [doi:10.1107/S1600536811046484]

Dichlorido[(4*E*,11*E*)-5,7,12,14-tetrabenzyl-7,14-dimethyl-1,4,8,11-tetraazacyclotetradeca-4,11-diene]cobalt(III) perchlorate

T. G. Roy, S. K. S. Hazari, K. K. Barua, S. W. Ng and E. R. T. Tiekink

Abstract: The Co^{III} atom in the title complex, [CoCl₂(C₄₀H₄₈N₄)]ClO₄, is octahedrally coordinated within a *trans*-Cl₂N₄ donor set provided by the tetradentate macrocyclic ligand and two chloride ions. The N-H atoms, which are orientated to one side of the N₄ plane, form hydrogen bonds with chloride ions and perchlorate-O atoms. These along with C-H...O interactions consolidate the three-dimensional crystal structure. One of the benzene rings was disordered. This was resolved over two positions with the major component of the disorder having a site-occupancy factor of 0.672 (4).