
Magnetic properties of cobalt(II) nitrate complex with macrocyclic ligand derived from 2,3-butanedione and its hydrazide

Substance

Cobalt(II) nitrate complex with macrocyclic ligand derived from 2,3-butanedione and its hydrazide; $[\text{Co}(\text{L})(\text{NO}_3)_2]$

Gross Formula

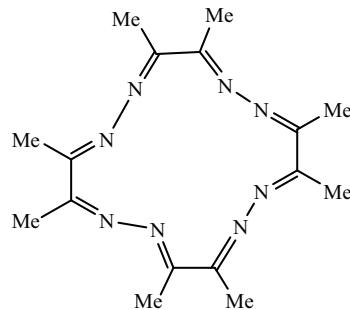


Properties

Molar magnetic moment

Structure

$[\text{Co}(\text{L})(\text{NO}_3)_2]$; L = 16-membered macrocyclic ligand derived from 2,3-butanedione and its hydrazide



Data

T [K]	χ_g $[10^{-6}$ emu/g]	χ_M $[10^{-6}$ emu/mol]	p_m or μ_{eff} $[\mu_B]$	Θ_P [K]	Method	Remarks
298	–	–	4.63	–	Gouy	Distorted octahedral geometry

T: Temperature

χ_g : Specific susceptibility

χ_M : Molar susceptibility

p_m , μ_{eff} : Effective magnetic moment per molecule

Θ_P : Paramagnetic Curie constant (Weiss constant)

Reference

D.P. Singh, S. Singh, V.B. Rana, J. Indian Chem. Soc. **79**, 889 (2002)