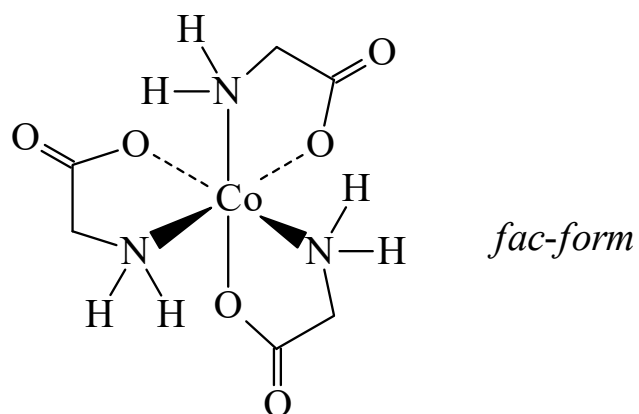




>>Entry Name: Tris(glycinato-*N,O*)cobalt(*III*), 11Cl



CAS Registry Number: 14221-43-3

Related CAS Registry Numbers(s): 21520-57-0 27074-68-6 30364-77-3 55658-12-3 79466-46-9 79516-75-9

Molecular Formula: C₆H₁₂CoN₃O₆

Molecular Weight: 281.11

Accurate Mass: 281.00581

Percentage Composition: C 25.64%; H 4.30%; Co 20.96%; N 14.95%; O 34.15%

Use/Importance: Coordinated glycine activated - condenses with acetaldehyde to yield threonine. Metabolised selectively by a bacterium

>>Variant: *fac*-form

Synonym(s): β-form

Molecular Formula: C₆H₁₂CoN₃O₆

Molecular Weight: 281.11

Accurate Mass: 281.00581

Percentage Composition: C 25.64%; H 4.30%; Co 20.96%; N 14.95%; O 34.15%

Physical Description: Red-pink needles; also reported as +1H₂O

Solubility: V. sol. H₂O

>>Variant: *mer*-form

Synonym(s): α-form

Molecular Formula: C₆H₁₂CoN₃O₆

Molecular Weight: 281.11

Accurate Mass: 281.00581

Percentage Composition: C 25.64%; H 4.30%; Co 20.96%; N 14.95%; O 34.15%

Physical Description: Dark violet cryst. + 1H₂O; also reported as + 2H₂O

Other Data: Has been resolved

References:

- Ley, H. *et al.*, *Ber.*, 1909, **42**, 3894, (*synth, mer-form*)
Krebs, H. *et al.*, *Z. Anorg. Allg. Chem.*, 1954, **276**, 236, (*resoln*)
Neville, R.G. *et al.*, *J.A.C.S.*, 1956, **78**, 4895, (*synth, fac-form*)
Ikutani, Y. *et al.*, *Bull. Chem. Soc. Jpn.*, 1959, **32**, 203, (*reaction*)
Mori, M. *et al.*, *Bull. Chem. Soc. Jpn.*, 1961, **34**, 1837, (*synth, mixed forms*)
Gillard, R.D. *et al.*, *Chem. Comm.*, 1970, 997, (*metabolism, cd*)
Norman, P.R. *et al.*, *Inorg. Chim. Acta*, 1977, **24**, L35, (*reactions*)
Dewan, J.C., *Acta Cryst. C*, 1988, **44**, 2199, (*cryst struct*)
Inorg. Synth., 1989, **25**, 135, (*synth, bibl*)