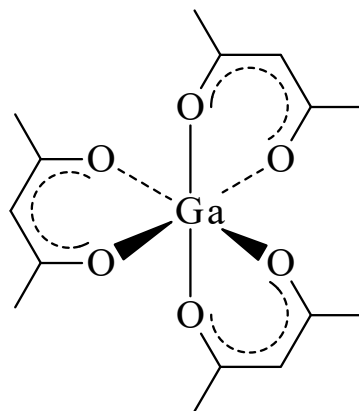




>>Entry Name: Tris(2,4-pentanedionato-*O,O'*)gallium, 10Cl

Synonym(s): Tris(acetylacetonato)gallium(*III*). Gallium(*III*) acetylacetonate



CAS Registry Number: 14405-43-7

Molecular Formula: C₁₅H₂₁GaO₆

Molecular Weight: 367.05

Accurate Mass: 366.059395

Percentage Composition: C 49.08%; H 5.77%; Ga 19.00%; O 26.15%

Source/Synthesis: Synth. from 2,4-pentanedione and Ga(OH)₃

Physical Description: White cryst. (Me₂CO)

Melting Point: Mp 194-195°

Boiling Point: Bp₁₀ 170°

Solubility: Almost insol. H₂O; spar. sol. Et₂O, alcohols; sol. CHCl₃

Other Data: ΔH_f° -1476 kJ mol⁻¹

Aldrich: 39354-1

Other: Gelest AKG310

References:

- Morgan, G.T. *et al.*, *J.C.S.*, 1921, **119**, 1059, (*synth*)
Hester, R.E. *et al.*, *Inorg. Chem.*, 1964, **3**, 513, (*Raman*)
Carty, A.J. *et al.*, *Can. J. Chem.*, 1965, **43**, 2559, (*pmr, conductivity*)
Smith, J.A.S. *et al.*, *J.C.S.(A)*, 1966, 1749, (*pmr*)
Gribov, L.A. *et al.*, *J. Struct. Chem. (Engl. Transl.)*, 1968, **9**, 448, (*ir*)
Hammel, J.C. *et al.*, *J.C.S.(A)*, 1969, 1461; 2883, (*ir, pmr, cmr*)
Utsunomiya, K., *Bull. Chem. Soc. Jpn.*, 1971, **44**, 2688, (*glc*)
McGuire, G.E. *et al.*, *Inorg. Chem.*, 1973, **12**, 2450, (*pe*)
Schilderout, S.M., *J. Phys. Chem.*, 1976, **80**, 2834, (*ms*)
Charalambous, J. *et al.*, *Inorg. Chim. Acta*, 1977, **22**, 101, (*ms*)
Starý, J. *et al.*, *Pure Appl. Chem.*, 1982, **54**, 2557, (*stability const*)
Saito, K. *et al.*, *Polyhedron*, 1990, **9**, 215, (*kinetics*)