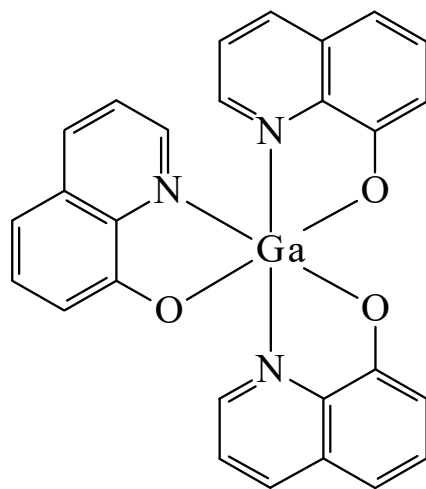




>>Entry Name: Tris(8-quinolinolato- N^1,O^8)gallium(III)



CAS Registry Number: 14642-34-3

Molecular Formula: $C_{27}H_{18}GaN_3O_3$

Molecular Weight: 502.18

Accurate Mass: 501.060397

Percentage Composition: C 64.58%; H 3.61%; Ga 13.88%; N 8.37%; O 9.56%

Source/Synthesis: Synth. from 8-hydroxyquinoline and aq. $Ga^{3(+)}$ at pH 7-7.5

Use/Importance: Used in several analytical methods

Physical Description: Yellow microcryst. solid

Solubility: Spar. sol. petrol; sol. $CHCl_3$

References:

Moeller, T. *et al.*, *Anal. Chem.*, 1950, **22**, 686, (*synth*)

Buděšínský, B., *Coll. Czech. Chem. Comm.*, 1967, **32**, 1688, (*thermodyn data*)

Charalambous, J. *et al.*, *Org. Mass Spectrom.*, 1971, **5**, 1169, (*ms*)

Lytle, F.E. *et al.*, *Spectrochim. Acta*, 1973, **29**, 1357, (*uv*)

Sary, J. *et al.*, *Critical Evaluation of Equilibrium Constants involving 8-Hydroxyquinoline and its Metal Chelates*, Pergamon, Oxford, 1979, (*thermodyn data*)