



>>Entry Name: Tris(1-phenyl-1,3-butanedionato-*O,O'*)chromium(III), 11Cl

Synonym(s): Tris(benzoylacetato)chromium(III)

CAS Registry Number: 16432-36-3

Related CAS Registry Numbers(s): 64726-50-7 64726-51-8

As Tris(1,1,1,5,5,5-hexafluoro-2,4-pentanedionato-*O,O'*)chromium(III), [KBL84-P](#) with
 $R^1 = \text{Ph}$ $R^2 = \text{CH}_3$

Molecular Formula: $\text{C}_{30}\text{H}_{27}\text{CrO}_6$

Molecular Weight: 535.536

Accurate Mass: 535.121274

Percentage Composition: C 67.28%; H 5.08%; Cr 9.71%; O 17.93%

Physical Description: Olive-drab cryst.

Melting Point: Mp 237-238°

Solubility: Sol. C_6H_6 , CHCl_3

Other Data: Undergoes electrophilic substn. in 2-position

Other: Gelest AKC195

References:

Collman, J.P. *et al.*, *J.A.C.S.*, 1961, **83**, 531, (*synth, reaction*)

Fay, R.C. *et al.*, *J.A.C.S.*, 1962, **84**, 2303, (*synth*)

Eisentraut, K.J. *et al.*, *J. Inorg. Nucl. Chem.*, 1967, **29**, 1931, (*tga*)

Singh, P.R. *et al.*, *Inorg. Chim. Acta*, 1968, **2**, 102, (*reactions*)

Singh, P.R. *et al.*, *Aust. J. Chem.*, 1969, **22**, 1169, (*uv-vis*)

Joshi, K.C. *et al.*, *J.C.S. Perkin 1*, 1973, 57

Kauffmann, G.B. *et al.*, *J. Chromatogr.*, 1975, **114**, 465, (*chromatog, isomers*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, TNN500