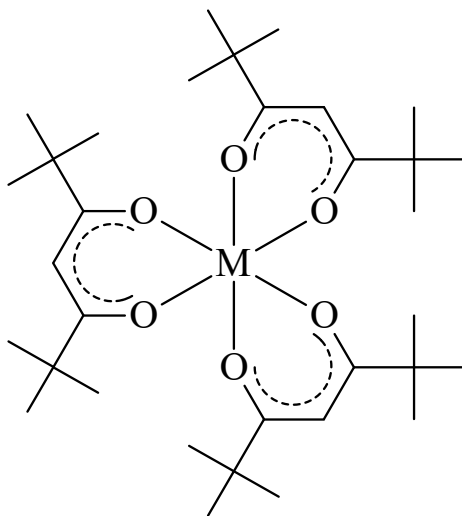




>>Entry Name: Tris(2,2,6,6-tetramethyl-3,5-heptanedionato-*O,O'*)chromium(III), ¹¹Cl

Synonym(s): Tris(dipivaloylmethanido)chromium. Chromium(III) dipivaloylmethanide



M = Cr

CAS Registry Number: 14434-47-0

Molecular Formula: C₃₃H₅₇CrO₆

Molecular Weight: 601.806

Accurate Mass: 601.356024

Percentage Composition: C 65.86%; H 9.55%; Cr 8.64%; O 15.95%

Use/Importance: Relaxation reagent

Physical Description: Dark purple cryst. or ruby red needles (EtOH)

Melting Point: Mp 230° (229°)

Boiling Point: Subl._{0.0001} 180°

Solubility: Sol. C₆H₆, EtOH, Me₂CO

Aldrich: 46822-3

Other: Gelest AKC216

References:

- Hammond, G.S. *et al.*, *Inorg. Chem.*, 1963, **2**, 73, (*synth*)
Hancock, R.D. *et al.*, *J. Mol. Struct.*, 1969, **4**, 361, (*ir*)
Fatta, A.M. *et al.*, *Inorg. Chem.*, 1971, **10**, 478, (*synth, uv-vis*)
Berg, E.W. *et al.*, *Anal. Chim. Acta*, 1972, **60**, 117, (*synth, ir*)
Yoshida, I. *et al.*, *Bull. Chem. Soc. Jpn.*, 1974, **47**, 2203, (*synth, dta*)
Levy, G.C. *et al.*, *J. Magn. Reson.*, 1975, **19**, 259, (*use*)
Schildcrout, S.M., *Inorg. Chem.*, 1980, **19**, 224, (*ms*)
Inorg. Synth., 1986, **24**, 183, (*synth*)