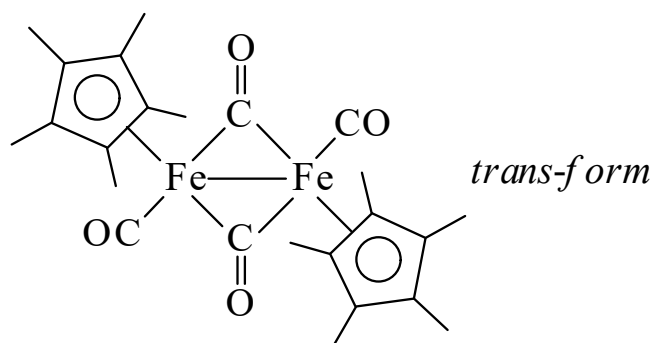




>>Entry Name: Di-μ-carbonyldicarbonylbis[(1,2,3,4,5-η)-1,2,3,4,5-pentamethyl-2,4-cyclopentadien-1-yl]diiron, 9CI

Synonym(s): Bis(pentamethylcyclopentadienyl)tetracarbonyldiiron. Bis[pentamethylcyclopentadienyldicarbonyliron]. Tetracarbonylbis(pentamethylcyclopentadienyl)diiron



CAS Registry Number: 35344-11-7

Related CAS Registry Numbers(s): 100813-29-4 100896-53-5

Molecular Formula: $C_{24}H_{30}Fe_2O_4$

Molecular Weight: 494.193

Accurate Mass: 494.084288

Percentage Composition: C 58.33%; H 6.12%; Fe 22.60%; O 12.95%

Use/Importance: Loses CO photochemically giving other dinuclear complexes

>>Variant: *trans*-form

CAS Registry Number: 12132-03-5

Molecular Formula: $C_{24}H_{30}Fe_2O_4$

Molecular Weight: 494.193

Accurate Mass: 494.084288

Percentage Composition: C 58.33%; H 6.12%; Fe 22.60%; O 12.95%

Source/Synthesis: Synth. from $Fe(CO)_5$ + C_5Me_5H or C_5Me_5Ac

Physical Description: Red-violet cryst. (CH_2Cl_2 /hexane)

Melting Point: Mp 280° (dec.)

References:

King, R.B. *et al.*, *J. Organomet. Chem.*, 1967, **8**, 287, (*synth, ir, pmr, uv, ms*)

King, R.B. *et al.*, *J.A.C.S.*, 1971, **93**, 4950, (*synth*)

Teller, R.G. *et al.*, *Inorg. Chem.*, 1980, **19**, 2770, (*cryst struct*)

Vitale, M. *et al.*, *J.A.C.S.*, 1995, **117**, 2286, (*uv, Raman*)

Synthetic Methods of Organometallic and Inorganic Chemistry, (ed. Hermann, W.A.), Thieme, 1997, **8**, 68-69, (*synth, ir, pmr, cmr*)

Vitale, M. *et al.*, *Chem. Comm.*, 1998, 179-180, (*reactions*)