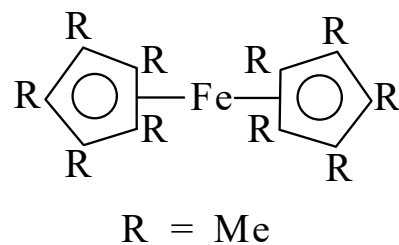




>>Entry Name: Decamethylferrocene, 9CI

Synonym(s): Bis(1,2,3,4,5-pentamethyl- $\pi$ -cyclopentadienyl)iron



CAS Registry Number: 12126-50-0

Molecular Formula: C<sub>20</sub>H<sub>30</sub>Fe

Molecular Weight: 326.304

Accurate Mass: 326.169689

Percentage Composition: C 73.62%; H 9.27%; Fe 17.12%

Source/Synthesis: Synth. from FeCl<sub>2</sub> + (C<sub>5</sub>Me<sub>5</sub>)Li in THF

Physical Description: Yellow cryst. by subl.

Melting Point: Mp 291-295°

Boiling Point: Subl.<sub>0.1</sub> 100-120°

Aldrich: 37854-2

Fluka: 30536

#### References:

*Aldrich Library of 13C and 1H FT NMR Spectra*, 1992, **3**, 767A, (*nmr*)

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

Freyberg, D.P. *et al.*, *J.A.C.S.*, 1979, **101**, 892, (*cryst struct*)

Materikova, R.B. *et al.*, *J. Organomet. Chem.*, 1981, **219**, 259, (*pmr, cmr*)

Barfuss, S. *et al.*, *J. Organomet. Chem.*, 1990, **391**, 209, (*ms*)