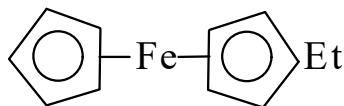




>>Entry Name: Ethylferrocene, 9CI

Synonym(s): Ferrocenylethane. (π -Cyclopentadienyl)(π -ethylcyclopentadienyl)iron



CAS Registry Number: 1273-89-8

Molecular Formula: $C_{12}H_{14}Fe$

Molecular Weight: 214.09

Accurate Mass: 214.044489

Percentage Composition: C 67.32%; H 6.59%; Fe 26.09%

Source/Synthesis: Synth. by reduction of acetylferrocene e.g. with $Na[BH_3(CN)]/BF_3 \cdot Et_2O$

Use/Importance: Commercially available. Used as surface layer to improve performance of photocathodes; as additive to reduce soot in crude oil combustion

Physical Description: Orange oil

Boiling Point: Bp_{10} 121-123°. $Bp_{0.2}$ 74-76°

Hazard & Toxicity: $LD_{50} >500$ mg/kg

References:

Rosenblum, M. *et al.*, *J.A.C.S.*, 1958, **80**, 5448, (*synth*)

Pauson, P.L. *et al.*, *J.C.S.*, 1962, 3880, (*synth*)

Slocum, D.W. *et al.*, *J.O.C.*, 1972, **37**, 4278, (*pmr*)

Koridze, A.A. *et al.*, *J. Organomet. Chem.*, 1975, **96**, C13, (*cmr*)

Shul'pin, G.B., *Zh. Obshch. Khim.*, 1981, **51**, 2152; *J. Gen. Chem. USSR (Engl. Transl.)*, 1981, **51**, 1854, (*synth*)

Leung, H.W. *et al.*, *Toxicol. Lett.*, 1987, **38**, 103, (*tox*)

Mitchell, J.B.A., *Combust. Flame*, 1991, **86**, 179, (*use*)

Houlton, A. *et al.*, *J.C.S. Dalton*, 1991, 467, (*Mössbauer, Fe-57 nmr, cmr*)

Imrie, D.C. *et al.*, *Nucl. Instrum. Methods Phys. Res., Sect. A*, 1992, **317**, 92, (*use*)

Bhattacharyya, S. *et al.*, *J.C.S. Dalton*, 1996, 4617, (*synth, ir, pmr*)