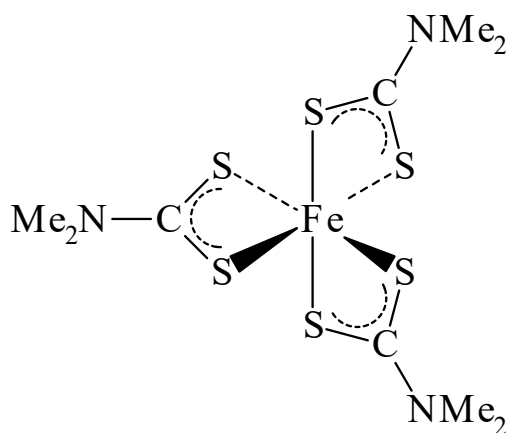




>>Entry Name: **Tris(*N,N*-dimethyldithiocarbamato)iron(III)**, 8Cl

Synonym(s): Tris(dimethylcarbamodithioato-*S,S'*)iron(III), 12Cl, 11Cl. Ferbam, BSI. Fermate



CAS Registry Number: 14484-64-1

Molecular Formula: $C_9H_{18}FeN_3S_6$

Molecular Weight: 416.504

Accurate Mass: 415.917431

Percentage Composition: C 25.95%; H 4.36%; Fe 13.41%; N 10.09%; S 46.19%

Source/Synthesis: Synth. from $FeCl_3$, NaOH, CS_2 and Me_2NH

Use/Importance: Fungicide, component of *Trimanzone*

Physical Description: Air-stable black lustrous cryst. ($CHCl_3/MeOH$); dec. upon prolonged storage or in contact with moisture

Melting Point: Mp 180 dec.°. Mp 300°

Solubility: Sl. sol. H_2O (13 mg per $100cm^3$, r.t.); sol. Me_2CO , $CHCl_3$, Py, MeCN

Other Data: Acidic in aq. soln. (pH 5.0). $\mu_{eff} = 4.2\mu_B$ (296K); $2.4\mu_B$ (150K)

Hazard & Toxicity: Irritant. Mutagenic

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