



Use/Importance: Used to resolve cation enantiomers; and in detn. of abs. config.

Physical Description: Dark red cryst. + 8H₂O

Optical Rotation: [α]_D -950

Solubility: V. insol. H₂O

>>**Variant:** ($\pm$)-form

Molecular Formula: C₃₆H₂₄FeN₆

Molecular Weight: 596.473

Accurate Mass: 596.141183

Percentage Composition: C 72.49%; H 4.06%; Fe 9.36%; N 14.09%

>>**Derivative:** Dichloride

CAS Registry Number: 14978-15-5

Use/Importance: Oxidation catalyst

Physical Description: Red

>>**Derivative:** Dibromide

CAS Registry Number: 15406-79-8

Physical Description: Red

>>**Derivative:** Diodide

CAS Registry Number: 15553-89-6

Physical Description: Red cryst. + 2H₂O (H₂O)

>>**Derivative:** Diperchlorate

CAS Registry Number: 14586-54-0

Physical Description: Red cryst. Forms various hydrates

>>**Derivative:** Sulfate

CAS Registry Number: 14634-91-4

Fluka: 46270

Sigma: P1929

References:

- Blau, F., *Monatsh. Chem.*, 1898, **19**, 647, (*synth*)
Dwyer, F.P. *et al.*, *J. Proc. R. Soc. N.S.W.*, 1950, **83**, 263, (*synth, resol*)
Koenig, L., *Coord. Chem. Rev.*, 1968, **3**, 471, (*rev, bibl*)
McWhinnie, W.R. *et al.*, *Adv. Inorg. Chem. Radiochem.*, 1969, **12**, 135, (*rev, bibl*)
Kolthoff, I.M. *et al.*, *Quant. Chem. Anal.*, MacMillan, 1969, (*indic*)
Zalkin, A. *et al.*, *Inorg. Chem.*, 1973, **12**, 1641, (*cryst struct, abs config*)
Johansson, L., *Chem. Scr.*, 1976, **9**, 30, (*synth*)
Johansson, L. *et al.*, *Inorg. Chim. Acta*, 1978, **31**, 117, (*cryst struct*)
O'Brien, P., *Polyhedron*, 1983, **2**, 233, (*kinetics, racemism, rev*)
Marczenko, Z., *Separation and Spectrophotometric Determination of Elements*, Horwood, Chichester, 1986, (*use*)
Compr. Coord. Chem., Pergamon, 1987, **4**, 1214; 1216, (*rev, bibl*)
Braterman, P.S. *et al.*, *Inorg. Chem.*, 1992, **31**, 555, (*uv-vis, electrochem*)
Koh, L.L. *et al.*, *Acta Cryst. C*, 1994, **50**, 884, (*cryst struct*)