



>>Entry Name: **Iron(II) trifluoromethanesulfonate**

Synonym(s): Ferrous trifluoromethanesulfonate. Ferrous triflate

CAS Registry Number: 59163-91-6

$\text{Fe}[\text{OS}(\text{O})_2\text{CF}_3]_2$

Molecular Formula: $\text{C}_2\text{F}_6\text{FeO}_6\text{S}_2$

Molecular Weight: 353.988

Accurate Mass: 353.838987

Percentage Composition: C 6.79%; F 32.20%; Fe 15.78%; O 27.12%; S 18.12%

Source/Synthesis: Synth. from anhyd. FeCl_2 + $\text{CF}_3\text{SO}_3\text{H}$

Use/Importance: Catalyst for epoxidn. of olefins with iodosylbenzene

Physical Description: White hygroscopic powder

Solubility: Sol. MeOH

References:

Haynes, J.S. *et al.*, *Can. J. Chem.*, 1981, **59**, 669; 1986, **64**, 744, (*synth, magnetism, Mössbauer*)