



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

Synonym(s): Ferric trifluoromethanesulfonate. Ferric triflate

CAS Registry Number: 63295-48-7

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

Molecular Formula: $\text{C}_3\text{F}_9\text{FeO}_9\text{S}_3$

Molecular Weight: 503.058

Accurate Mass: 502.791011

Percentage Composition: C 7.16%; F 33.99%; Fe 11.10%; O 28.62%; S 19.12%

Source/Synthesis: Obt. from $\text{FeCl}_3 + \text{CF}_3\text{SO}_3\text{H}$

Use/Importance: Catalyst for epoxidn. of olefins with iodosylbenzene and oxidative polym. of pyrroles. Photolysis catalyst

Physical Description: White solid

Aldrich: 38116-0

References:

Haynes, J.S. *et al.*, *Can. J. Chem.*, 1981, **59**, 669, (*synth, ir, Mössbauer, magnetism*)