



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

Synonym(s): Ferric stearate. Iron(*III*) octadecanoate. Tris(octadecanoato)iron(*III*)

CAS Registry Number: 555-36-2

$\text{Fe}[\text{OOC}(\text{CH}_2)_{16}\text{CH}_3]_3$

Molecular Formula: $\text{C}_{54}\text{H}_{105}\text{FeO}_6$

Molecular Weight: 906.267

Accurate Mass: 905.726054

Percentage Composition: C 71.57%; H 11.68%; Fe 6.16%; O 10.59%

Source/Synthesis: Obt. from Fe + stearic acid or from iron(*III*) sulfate + sodium stearate

Use/Importance: Varnish drier. Used in photocopying; thermal recording paper. Catalyst

Physical Description: Light brown powder

Solubility: Insol. H_2O ; sol. EtOH, Et_2O

References:

Pomerantz, M. *et al.*, *J. Appl. Phys.*, 1982, **53**, 7960, (*magnetism, epr, Mössbauer*)