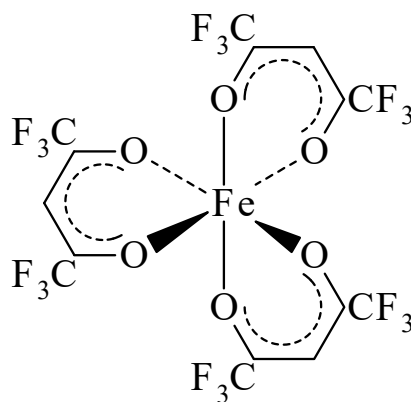




>>Entry Name: Tris(1,1,1,5,5,5-hexafluoro-2,4-pentanedionato-*O,O'*)iron(*III*)

Synonym(s): Tris(hexafluoroacetylacetonato)iron(*III*)



CAS Registry Number: 17786-67-3

Molecular Formula: $C_{15}H_3F_{18}FeO_6$

Molecular Weight: 677.003

Accurate Mass: 676.899158

Percentage Composition: C 26.61%; H 0.45%; F 50.51%; Fe 8.25%; O 14.18%

Source/Synthesis: Synth. from $FeCl_3 + Hfacac$ in CCl_4 or from aq. solns. of HL + aq. Fe(*III*) ions

Use/Importance: Catalyst. Used in deposition of iron oxide films. Used to quench triplet states of organic molecules

Physical Description: Dark red cryst. High spin Fe(*III*)

Melting Point: Mp 52-53°. Mp 49°

References:

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