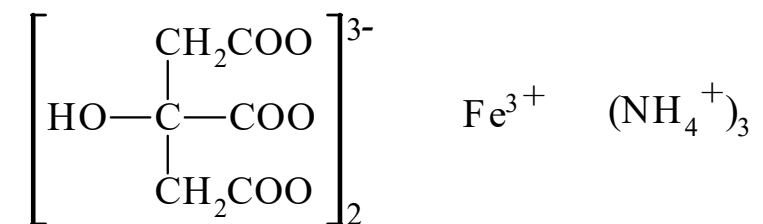




>>Entry Name: Iron(III) ammonium citrate

ENTRY UNDER REVIEW

Synonym(s): Ferric ammonium citrate. Soluble ferric citrate. Ammonium iron(III) 2-hydroxy-1,2,3-propanetricarboxylate. E381



CAS Registry Number: 1185-57-5

Related CAS Registry Numbers(s): 87524-94-5

Molecular Formula: $\text{C}_{12}\text{H}_{22}\text{FeN}_3\text{O}_{14}$

Molecular Weight: 488.164

Accurate Mass: 488.045121

Percentage Composition: C 29.53%; H 4.54%; Fe 11.44%; N 8.61%; O 45.88%

Source/Synthesis: Synth. from $\text{Fe}_2\text{O}_3 \cdot n\text{H}_2\text{O}$ + citric acid and NH_3

Use/Importance: Used in blueprint photography; food additive; haematinic

Physical Description: Garnet red scales or brown powder; deliquescent; light-sensitive

Solubility: Sol. H_2O ; insol. EtOH

Aldrich: 22896-6

Fluka: 9714

Sigma: F5879

References:

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Martindale, *The Extra Pharmacopoeia, 30th edn.*, Pharmaceutical Press, 1993, 975

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Encyclopedia of Food and Color Additives, (ed. Burdock, G.A.), CRC Press, 1997, 1096-1097, (use, props)