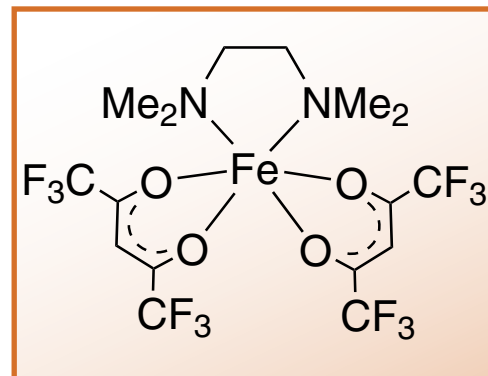


26-1640 Bis(1,1,1,5,5,5-hexafluoroacetylacetonato)(N,N,N',N'-tetramethylethylenediamine) iron(II), min. 98% [73450-43-8] 100mg
500mg
C₁₆H₁₈F₁₂FeN₂O₄; FW:586.15; black xtl.

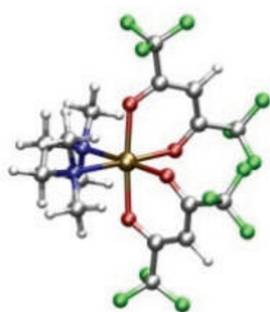
Technical Notes:

1. Volatile iron complex used in the CVD of iron oxide thin films.
2. Volatile iron complex used in the vapor deposition of β -Fe₂O₃ nanosystems.
3. Volatile iron complex used in the controlled synthesis β -Fe₂O₃ nanosystems functionalized with silver and platinum nanoparticles, enabling an intimate metal-oxide contact and offering promising applications in gas-sensing devices.
4. Volatile iron complex used in the fabrication of β -Fe₂O₃ nanomaterials on titanium substrates, which exhibit promising performance as an anode for lithium batteries.
5. Volatile iron complex used in the preparation of supported ϵ and β iron oxide by CVD.
6. Volatile iron complex used in the preparation of supported fluorine-doped α -Fe₂O₃ via plasma-enhanced CVD.
7. Volatile iron complex used in the preparation of Fe₂O₃, and subsequent iron oxide ALD functionalization with a Fe-Ti-O overlayer for self-cleaning and antifogging applications.
8. Volatile iron complex used as a versatile CVD precursor for the phase-selective synthesis of β - and ϵ -Fe₂O₃.
9. Volatile iron complex used as a single source precursor for the one-pot synthesis of fluorine-doped α -Fe₂O₃ by a plasma-assisted strategy.
10. Volatile iron complex used for the plasma-enhanced CVD of fluorine-doped Fe₂O₃ films for photoelectrochemical applications.
11. Combined theoretical/experimental study on the molecular properties and CVD surface behavior of Fe(hfa)₂TMEDA and its homologous Co, Cu, and Zn compounds.
12. Phase-selective synthesis of α , β , and ϵ -Fe₂O₃ from Fe(hfa)₂TMEDA for sunlight-driven hydrogen production via photoreforming of aqueous solutions.
13. Theoretical study investigating the molecule-to-material conversion of Fe(hfa)₂TMEDA, and its homologous Co, Cu and Zn compounds in CVD applications.

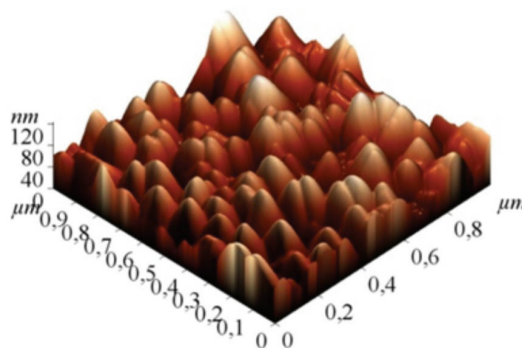


References:

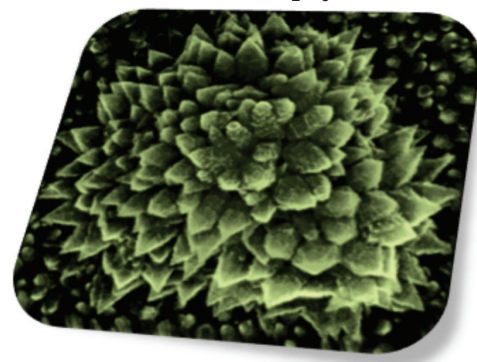
1. *Inorg. Chim. Acta.*, **2012**, 380, 161.
2. *Dalton Trans.*, **2012**, 41, 149.
3. *CrystEngComm*, **2012**, 14, 6469.
4. *ChemPhysChem*, **2012**, 13, 3798.
5. *CrystEngComm*, **2013**, 15, 1039.
6. *J. Nanosci. Nanotechnol.*, **2013**, 13, 4962.
7. *ACS Appl. Mater. Interfaces*, **2013**, 5, 7130.
8. *Eur. J. Inorg. Chem.*, **2013**, 5454.
9. *RSC Adv.*, **2013**, 3, 23762.
10. *Int. J. Hydrogen Energy*, **2013**, 38, 14189.
11. *Phys. Status Solidi (A)*, **2014**, 211, 251.
12. *Adv. Funct. Mater.*, **2014**, 24, 372.
13. *Int. J. Quantum Chem.*, **2014**, 114, 1.



AFM of Fe₂O₃



SEM of Fe₂O₃



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