>>**Entry Name: 1,1,2,3,3,3-Hexafluoro-1-propene,** 9CI
Synonym(s): Hexafluoropropene, 8CI. Perfluoropropene

CAS Registry Number: 116-15-4
$F_3CCF=CF_2$

Molecular Formula: C_3F_6
Molecular Weight: 150.023
Accurate Mass: 149.990418
Percentage Composition: C 24.02%; F 75.98%
Source/Synthesis: Manuf. by pyrolysis of $ClCHF_2$
Use/Importance: Comonomer, e.g. with tetrafluoroethylene, to give fluoroelastomers. Forms comly. important copolymers with tetrafluoroethylene and vinylidene fluoride
Physical Description: Gas
Melting Point: Mp –156.5°. Mp –153°
Boiling Point: Bp –30.5°
Solubility: Insol. H_2O
Other Data: Forms a dimer
Hazard & Toxicity: LC_{50} (mus, ihl) 750 ppm (4h exposure)

Aldrich: 29538-8

>>**Derivative:** Diethylamine complex (1:1)
Synonym(s): HPDA

Use/Importance: Fluorinating agent, e.g. for replacement of OH by F

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