



>>Entry Name: Trifluoro(trifluoromethoxy)ethene

Synonym(s): Trifluoromethyl trifluorovinyl ether, 8Cl. Perfluoromethyl perfluorovinyl ether. Perfluoro(methyl vinyl ether)

CAS Registry Number: 1187-93-5

$\text{F}_2\text{C}=\text{CFOCF}_3$

Molecular Formula: $\text{C}_3\text{F}_6\text{O}$

Molecular Weight: 166.023

Accurate Mass: 165.985333

Percentage Composition: C 21.70%; F 68.66%; O 9.64%

Source/Synthesis: Manuf. from hexafluoropropylene oxide, CO and F_2

Use/Importance: Monomer for elastomeric copolymers. e.g. with tetrafluoroethylene

Boiling Point: Bp -22° (-26.1°)

References:

Durrell, W.S. *et al.*, *J. Polym. Sci., Part A*, 1965, **3**, 4065, (*synth, polym*)

Moreland, C.G. *et al.*, *J. Chem. Phys.*, 1966, **45**, 803, (*F-19 nmr*)

Haszeldine, R.N. *et al.*, *J.C.S.(C)*, 1968, 398, (*synth, F-19 nmr, props*)

Barney, A.L. *et al.*, *J. Polym. Sci., Part A-1*, 1970, **8**, 1091, (*copolymer*)