



>>Entry Name: 1,1,1,2,3,4,5,5,5-Nonafluoro-4-(trifluoromethyl)-2-pentene, 9Cl, 8Cl

Synonym(s): Perfluoro-4-methyl-2-pentene

CAS Registry Number: 2070-70-4

Related CAS Registry Numbers(s): 3709-71-5

$(F_3C)_2CFCF=CF CF_3$

Molecular Formula: C_6F_{12}

Molecular Weight: 300.047

Accurate Mass: 299.980836

Percentage Composition: C 24.02%; F 75.98%

Other Data: Material prepared by dimerisation of perfluoropropene usually contains some 2-trifluoromethyl isomer (ca. 5-10%)

>>Variant: (*E*)-form

Molecular Formula: C_6F_{12}

Molecular Weight: 300.047

Accurate Mass: 299.980836

Percentage Composition: C 24.02%; F 75.98%

Boiling Point: Bp 45.5-49°

Other Data: Contains 5.3% of the (*Z*)-isomer

References:

Dresdner, R.D. *et al.*, *J.O.C.*, 1965, **30**, 3524-3527, (*synth, glc, F-19 nmr*)

Halasz, S.P. *et al.*, *Chem. Ber.*, 1973, **106**, 2950-2959, (*E-form, synth*)

Schumann, C. *et al.*, *J. Magn. Reson.*, 1975, **18**, 172-184, (*F-19 nmr*)

Huang, Y. *et al.*, *J. Organomet. Chem.*, 1981, **205**, 185-191, (*synth, F-19 nmr*)

Ger. Pat., 1994, 4 241 969; *CA*, **121**, 82501t, (*E-form, synth, purifn, F-19 nmr*)

Isemura, T. *et al.*, *J. Fluorine Chem.*, 1996, **80**, 81-85, (*ms*)