



>>Entry Name: Hexadecafluoroheptane

Synonym(s): Perfluoroheptane

CAS Registry Number: 335-57-9

$\text{F}_3\text{C}(\text{CF}_2)_5\text{CF}_3$

Molecular Formula: C_7F_{16}

Molecular Weight: 388.051

Accurate Mass: 387.974448

Percentage Composition: C 21.67%; F 78.33%

Use/Importance: Cleaning solvent for silicon wafers. Component for cosmetic/dermatol. formulations. Coolant for food, blood plasma, laser chips. Working fluid for refrigerators and heat pumps. Component for blood substitute emulsions

Melting Point: Mp -51°

Boiling Point: Bp $80-83^\circ$

Density: d_4^{20} 1.732169. d_4^{25} 1.72

Refractive Index: n_D^{20} 1.2602

Aldrich: 37436-9

Fluka: 77272

References:

Klevens, H.B. *et al.*, *J.A.C.S.*, 1947, **69**, 3055, (*uv*)

Mohler, F.L. *et al.*, *J.A.C.S.*, 1949, **71**, 337, (*ms*)

Musgrave, W.K.R. *et al.*, *J.C.S.*, 1949, 3021, (*synth*)

Oliver, G.D. *et al.*, *J.A.C.S.*, 1951, **73**, 5722, (*ir, Raman, props*)

Haszeldine, R.N., *J.C.S.*, 1953, 3761, (*synth*)

Postelnek, W., *J. Phys. Chem.*, 1959, **63**, 746, (*props*)

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Hamza, A.M. *et al.*, *J. Magn. Reson.*, 1981, **42**, 227, (*cmr*)

Starkweather, H.W., *Macromolecules*, 1986, **19**, 1131, (*props*)

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