



>>Entry Name: Nonadecafluorodecanoic acid, 9CI

Synonym(s): Perfluorodecanoic acid

CAS Registry Number: 335-76-2

$\text{F}_3\text{C}(\text{CF}_2)_8\text{COOH}$

Molecular Formula: $\text{C}_{10}\text{HF}_{19}\text{O}_2$

Molecular Weight: 514.086

Accurate Mass: 513.967312

Percentage Composition: C 23.36%; H 0.20%; F 70.22%; O 6.22%

Physical Description: Liq.

Boiling Point: Bp_{30} 130°

Hazard & Toxicity: LD_{50} (rat, orl) 57 mg/kg. Exp. reprod. and teratogenic effects

Aldrich: 17774-1

Fluka: 77266

>>Derivative: Vinyl ester

Molecular Formula: $\text{C}_{12}\text{H}_3\text{F}_{19}\text{O}_2$

Molecular Weight: 540.124

Accurate Mass: 539.982962

Percentage Composition: C 26.68%; H 0.56%; F 66.83%; O 5.92%

Boiling Point: $\text{Bp}_{0.5}$ 53°

Density: d_4^{20} 1.707

References:

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 507C, (ir)

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Kauck, E.A. *et al.*, *Ind. Eng. Chem.*, 1951, **43**, 2332, (synth)

Severson, W.A. *et al.*, *J.A.C.S.*, 1958, **30**, 2313, (synth)

Dorset, D.L., *Chem. Phys. Lipids*, 1977, **20**, 13, (struct)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials, 8th edn.*, Van Nostrand Reinhold, 1992, PCG725