



>>Entry Name: 2,2,3,3,3-Pentafluoro-1-propanol, 9CI

CAS Registry Number: 422-05-9

$\text{F}_3\text{CCF}_2\text{CH}_2\text{OH}$

Molecular Formula: $\text{C}_3\text{H}_3\text{F}_5\text{O}$

Molecular Weight: 150.048

Accurate Mass: 150.010405

Percentage Composition: C 24.01%; H 2.02%; F 63.31%; O 10.66%

Use/Importance: Derivatisation reagent for gc anal. of acids

Boiling Point: Bp_{748} 80°

Density: d_4^{20} 1.505

Refractive Index: n_D^{25} 1.2882

Aldrich: 25747-8

Fluka: 76757

Sigma: P3834

>>Derivative: 3,5-Dinitrobenzoyl

Physical Description: Cryst.

Melting Point: Mp 96-96.5°

>>Derivative: Methanesulfonyl

Molecular Formula: $\text{C}_4\text{H}_5\text{F}_5\text{O}_3\text{S}$

Molecular Weight: 228.14

Accurate Mass: 227.987955

Percentage Composition: C 21.06%; H 2.21%; F 41.64%; O 21.04%; S 14.06%

Physical Description: Oil

Boiling Point: Bp_{70} 112-114°

Refractive Index: n_D^{20} 1.3562

>>Derivative: 2-Propenoyl

CAS Registry Number: 356-86-5

Molecular Formula: $\text{C}_6\text{H}_5\text{F}_5\text{O}_2$

Molecular Weight: 204.096

Accurate Mass: 204.02097

Percentage Composition: C 35.31%; H 2.47%; F 46.54%; O 15.68%

Boiling Point: Bp_{100} 50°

>>Derivative: 2-Methyl-2-propenoyl

CAS Registry Number: 45115-53-5

Molecular Formula: $\text{C}_7\text{H}_7\text{F}_5\text{O}_2$

Molecular Weight: 218.123

Accurate Mass: 218.03662

Percentage Composition: C 38.55%; H 3.23%; F 43.55%; O 14.67%

Boiling Point: Bp_{100} 55°

References:

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McCarthy, E.R., *J.O.C.*, 1963, **28**, 492, (ms)

Watson, E. *et al.*, *J. Neurochem.*, 1973, **21**, 1569, (use)

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