



>>Entry Name: 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-Pentadecafluoro-1-octanol, 9CI

Synonym(s): 1*H*,1*H*-Perfluorooctanol

CAS Registry Number: 307-30-2

Related CAS Registry Numbers(s): 52299-00-0

$\text{F}_3\text{C}(\text{CF}_2)_6\text{CH}_2\text{OH}$

Molecular Formula: $\text{C}_8\text{H}_3\text{F}_{15}\text{O}$

Molecular Weight: 400.087

Accurate Mass: 399.994435

Percentage Composition: C 24.02%; H 0.76%; F 71.23%; O 4.00%

Physical Description: Waxy solid

Melting Point: Mp 46-48°

Boiling Point: Bp 163-165° (148-150°). Bp₈ 68.5°

Aldrich: 25745-1

Fluka: 76500

Sigma: P7534

>>Derivative: 2-Propenoyl

CAS Registry Number: 307-98-2

Molecular Formula: $\text{C}_{11}\text{H}_5\text{F}_{15}\text{O}_2$

Molecular Weight: 454.135

Accurate Mass: 454.005

Percentage Composition: C 29.09%; H 1.11%; F 62.75%; O 7.05%

Boiling Point: Bp 188°. Bp₅ 65°

>>Derivative: 2-Methyl-2-propenoyl

References:

Steward, O. *et al.*, *J.O.C.*, 1961, **26**, 2943, (*synth*)

Von Werner, K. *et al.*, *J. Fluorine Chem.*, 1986, **31**, 183, (*O-17 nmr*)

Boutevin, B. *et al.*, *J. Fluorine Chem.*, 1987, **38**, 47, (*synth, esters*)

Haywood, L. *et al.*, *J. Fluorine Chem.*, 1991, **51**, 419, (*synth*)