



>>Entry Name: 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-Heptafluoro-1-decanol, 9CI

CAS Registry Number: 678-39-7

$\text{F}_3\text{C}(\text{CF}_2)_7\text{CH}_2\text{CH}_2\text{OH}$

Molecular Formula: $\text{C}_{10}\text{H}_5\text{F}_{17}\text{O}$

Molecular Weight: 464.122

Accurate Mass: 464.006891

Percentage Composition: C 25.88%; H 1.09%; F 69.59%; O 3.45%

Melting Point: Mp 43°

>>Derivative: 2-Propenoyl

CAS Registry Number: 27905-45-9

Molecular Formula: $\text{C}_{13}\text{H}_7\text{F}_{17}\text{O}_2$

Molecular Weight: 518.17

Accurate Mass: 518.017456

Percentage Composition: C 30.13%; H 1.36%; F 62.33%; O 6.18%

Use/Importance: Monomer

>>Derivative: 2-Methyl-2-propenoyl

CAS Registry Number: 1996-88-9

Molecular Formula: $\text{C}_{14}\text{H}_9\text{F}_{17}\text{O}_2$

Molecular Weight: 532.197

Accurate Mass: 532.033106

Percentage Composition: C 31.60%; H 1.70%; F 60.69%; O 6.01%

Use/Importance: Monomer

Boiling Point: Bp₄ 118-122°

References:

U.K. Pat., 1965, 994 607; *CA*, **63**, 11362d, (*synth*)

U.S. Pat., 1966, 3 283 012; *CA*, **66**, 18507t, (*synth*)

U.S. Pat., 1966, 3 239 557; *CA*, **64**, 14098d, (*2-methyl-2-propenoyl*)

Ger. Pat., 1973, 2 311 277; *CA*, **79**, 146014k, (*2-propenoyl*)

Blancou, H. *et al.*, *J. Fluorine Chem.*, 1983, **23**, 57-65, (*synth*)