



>>Entry Name: 2-Fluoro-2-methylpropanoic acid, 9CI

Synonym(s): 2-Fluoroisobutyric acid

CAS Registry Number: 63812-15-7

(H₃C)₂CF₂COOH

Molecular Formula: C₄H₇FO₂

Molecular Weight: 106.096

Accurate Mass: 106.043008

Percentage Composition: C 45.28%; H 6.65%; F 17.91%; O 30.16%

Use/Importance: Intermediate for fungicides

Physical Description: Oil

Boiling Point: Bp₁₅ 90°

>>Derivative: Me ester

CAS Registry Number: 338-76-1

Molecular Formula: C₅H₉FO₂

Molecular Weight: 120.123

Accurate Mass: 120.058658

Percentage Composition: C 49.99%; H 7.55%; F 15.82%; O 26.64%

Physical Description: Liq.

Boiling Point: Bp 109°

>>Derivative: Et ester

CAS Registry Number: 55816-69-8

Molecular Formula: C₆H₁₁FO₂

Molecular Weight: 134.15

Accurate Mass: 134.074308

Percentage Composition: C 53.72%; H 8.26%; F 14.16%; O 23.85%

Physical Description: Liq.

Boiling Point: Bp 124-126°

References:

Saunders, B.C. *et al.*, *J.C.S.*, 1948, 1773, (*Me ester*)

Eur. Pat., 1991, 468 681; *CA*, **116**, 214012t, (*synth*)

U.S. Pat., 1992, 5 175 345; *CA*, **118**, 212500t, (*esters*)

Ould Amanetoullah, A. *et al.*, *Synth. Commun.*, 1996, **26**, 1155, (*synth, ir, pmr, F-19 nmr*)