



>>Entry Name: 4,4,5,5,5-Pentafluoro-3-oxopentanoic acid, 9CI

Synonym(s): Pentafluoropropionylacetic acid

Related CAS Registry Numbers(s): 26717-86-2

$\text{F}_3\text{CCF}_2\text{COCH}_2\text{COOH}$

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

Molecular Weight: 206.069

Accurate Mass: 206.000235

Percentage Composition: C 29.14%; H 1.47%; F 46.10%; O 23.29%

>>Derivative: Et ester

CAS Registry Number: 663-35-4

Molecular Formula: $\text{C}_7\text{H}_7\text{F}_5\text{O}_3$

Molecular Weight: 234.123

Accurate Mass: 234.031535

Percentage Composition: C 35.91%; H 3.01%; F 40.57%; O 20.50%

Physical Description: Liq.

Boiling Point: Bp 141-142°. Bp₆₀ 62-64°

Refractive Index: n_D^{25} 1.3630

Other Data: Partially enolised

Other: Oakwood 2401

>>Derivative: Et ester, Cu complex

CAS Registry Number: 26785-67-1

Physical Description: Cryst. (H_2O)

Melting Point: Mp 154-155°

References:

Slusarczuk, G.M.J. *et al.*, *J.O.C.*, 1971, **36**, 37, (*synth*, *ir*)

Eur. Pat., 1983, 82 252; *CA*, **99**, 157982p, (*synth*, *pmr*, *F-19 nmr*)

Eur. Pat., 1987, 220 025; *CA*, **107**, 134297p, (*synth*)

Kitazume, T. *et al.*, *J. Fluorine Chem.*, 1989, **42**, 17, (*synth*, *pmr*, *ir*, *F-19 nmr*, *tautom*)