



>>Entry Name: 5-Iodopentanoic acid, 9CI

Synonym(s): 5-Iodovaleric acid, 8CI

CAS Registry Number: 19448-36-3

ICH₂CH₂CH₂CH₂COOH

Molecular Formula: C₅H₉IO₂

Molecular Weight: 228.029

Accurate Mass: 227.964728

Percentage Composition: C 26.34%; H 3.98%; I 55.65%; O 14.03%

Physical Description: Needles (petrol or Et₂O/hexane)

Melting Point: Mp 56-57°

Solubility: Sol. H₂O, EtOH

>>Derivative: Et ester

CAS Registry Number: 41302-32-3

Molecular Formula: C₇H₁₃IO₂

Molecular Weight: 256.083

Accurate Mass: 255.996028

Percentage Composition: C 32.83%; H 5.12%; I 49.56%; O 12.50%

Physical Description: Oil

Boiling Point: Bp₂₀ 108-118°

Rare Chemicals Library: S67717-5

>>Derivative: Nitrile

Synonym(s): 5-Iodopentanenitrile. 1-Cyano-4-iodobutane

CAS Registry Number: 6727-75-9

Molecular Formula: C₅H₈IN

Molecular Weight: 209.029

Accurate Mass: 208.970147

Percentage Composition: C 28.73%; H 3.86%; I 60.71%; N 6.70%

Physical Description: Oil

Boiling Point: Bp₁ 98°

References:

Carter, A.S., *J.A.C.S.*, 1928, **50**, 1967, (*synth*)

U.S. Pat., 1962, 3 026 334; *CA*, **58**, 11222, (*synth*)

Lavielle, S. *et al.*, *J.A.C.S.*, 1978, **100**, 1558, (*synth*)

Booth, B.L. *et al.*, *J.C.S. Perkin 1*, 1983, 1067, (*deriv, synth, ir, pmr, ms*)