



>>Entry Name: *N*-Leucylvaline, 9CI

Extra CAS Registry Numbers(s): 35436-83-0
(H3C)2CHCH2CH(NH2)CONHCH(COOH)CH(CH3)2

Molecular Formula: $C_{11}H_{22}N_2O_3$

Molecular Weight: 230.306

Accurate Mass: 230.163043

Percentage Composition: C 57.37%; H 9.63%; N 12.16%; O 20.84%

>>Variant: L-D-form

CAS Registry Number: 17665-00-8

Molecular Formula: $C_{11}H_{22}N_2O_3$

Molecular Weight: 230.306

Accurate Mass: 230.163043

Percentage Composition: C 57.37%; H 9.63%; N 12.16%; O 20.84%

Physical Description: Monohydrate

Optical Rotation: $[\alpha]_D^{20} +55$ (c, 1 in H_2O)

>>Variant: L-L-form

CAS Registry Number: 13588-95-9

Molecular Formula: $C_{11}H_{22}N_2O_3$

Molecular Weight: 230.306

Accurate Mass: 230.163043

Percentage Composition: C 57.37%; H 9.63%; N 12.16%; O 20.84%

Physical Description: Cryst. (MeOH/Et₂O)

Optical Rotation: $[\alpha]_D +17.9$ (c, 1 in H_2O)

Sigma: L1377

>>Derivative: BOC-Leu-Val-OH

Physical Description: Cryst. (C_6H_6 /hexane)

Melting Point: Mp 109-111°

Optical Rotation: $[\alpha]_D^{20} -32$ (c, 2 in MeOH)

>>Derivative: BOC-Leu-Val-OMe

Physical Description: Leaflets (petrol)

Melting Point: Mp 143-144°

Optical Rotation: $[\alpha]_D^{20} -44$ (c, 2.4 in MeOH)

References:

- Laufer, D.A. *et al.*, *J.A.C.S.*, 1967, **89**, 1246, (*synth*)
Hirschmann, R. *et al.*, *J.O.C.*, 1967, **32**, 3415, (*synth*)
Noda, K. *et al.*, *Bull. Chem. Soc. Jpn.*, 1968, **41**, 401, (*synth*)
Maher, J.J. *et al.*, *Tet. Lett.*, 1972, 1581, (*synth*)
Yamazaki, N. *et al.*, *J. Polym. Sci., Polym. Chem. Ed.*, 1977, **15**, 1511, (*synth*)
Mitchell, A.R. *et al.*, *J.O.C.*, 1978, **43**, 2845, (*synth*)
Görbitz, C.H. *et al.*, *Acta Chem. Scand.*, 1996, **50**, 537-543, (*cryst struct*)