>>**Entry Name: *N*-Alanylglutamic acid,** 9CI

$H_3CCH(NH_2)CONHCH(COOH)CH_2CH_2COOH$

Molecular Formula: $C_8H_{14}N_2O_5$
Molecular Weight: 218.209
Accurate Mass: 218.090273
Percentage Composition: C 44.03%; H 6.47%; N 12.84%; O 36.66%

>>**Variant:** D-L-form

Molecular Formula: $C_8H_{14}N_2O_5$
Molecular Weight: 218.209
Accurate Mass: 218.090273
Percentage Composition: C 44.03%; H 6.47%; N 12.84%; O 36.66%
Optical Rotation: $[\alpha]_D^{23}$–32.9 (c, 1-2 in 0.5M HCl)

>>**Variant:** L-D-form

CAS Registry Number: 16809-27-1
Molecular Formula: $C_8H_{14}N_2O_5$
Molecular Weight: 218.209
Accurate Mass: 218.090273
Percentage Composition: C 44.03%; H 6.47%; N 12.84%; O 36.66%
Optical Rotation: $[\alpha]_D^{23}$+32.4 (c, 1-2 in 0.5M HCl)

>>**Variant:** L-L-form

CAS Registry Number: 13187-90-1
Molecular Formula: $C_8H_{14}N_2O_5$
Molecular Weight: 218.209
Accurate Mass: 218.090273
Percentage Composition: C 44.03%; H 6.47%; N 12.84%; O 36.66%
Melting Point: Mp 92-98°
Optical Rotation: $[\alpha]_D^{24}$–40 (c, 0.5 in MeOH)
Sigma: A0378

>>**Derivative:** Boc-Ala-Glu-$(OBu^t)_2$

Melting Point: Mp 87-89°
Optical Rotation: $[\alpha]_D^{25}$–27 (c, 1.2 in MeOH)

>>**Variant:** DL-L-form

CAS Registry Number: 16371-85-0
Molecular Formula: $C_8H_{14}N_2O_5$
Molecular Weight: 218.209
Accurate Mass: 218.090273
Percentage Composition: C 44.03%; H 6.47%; N 12.84%; O 36.66%
Optical Rotation: $[\alpha]_D^{25}$–17.3 (H_2O)

References:

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Harnden, M.R.*, J.C.S.(C)*, 1967, 2341, *(synth)*
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Suzuki, K. *et al.*, *Chem. Pharm. Bull.*, 1977, **25**, 2613, *(synth)*