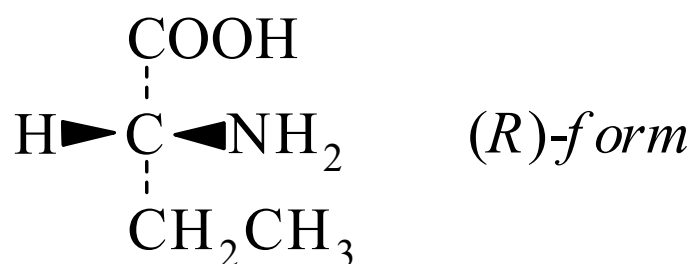




>>Entry Name: 2-Aminobutanoic acid, 9CI

Synonym(s): α -Aminobutyric acid. Butyrine. Quadrin



CAS Registry Number: 80-60-4

Related CAS Registry Numbers(s): 4470-69-3 5959-30-8 6367-34-6 7324-11-0 7682-18-0 7682-20-4 15399-11-8 15399-22-1 21685-47-2 22621-37-0 26815-92-9 39540-29-9 40916-98-1 53726-14-0 55410-21-4 56545-22-3 67942-91-0 73689-74-4 87068-75-5 91462-82-7 93554-80-4 103765-03-3 104652-77-9

Extra CAS Registry Numbers(s): 28805-76-7

Molecular Formula: $\text{C}_4\text{H}_9\text{NO}_2$

Molecular Weight: 103.121

Accurate Mass: 103.063329

Percentage Composition: C 46.59%; H 8.80%; N 13.58%; O 31.03%

>>Variant: (R)-form

Synonym(s): D-form

CAS Registry Number: 2623-91-8

Molecular Formula: $\text{C}_4\text{H}_9\text{NO}_2$

Molecular Weight: 103.121

Accurate Mass: 103.063329

Percentage Composition: C 46.59%; H 8.80%; N 13.58%; O 31.03%

after hydrol.

Physical Description: Leaflets (EtOH aq.)

Melting Point: Mp 292 dec.°

Optical Rotation: $[\alpha]_{\text{D}}^{20} -7.86$ (H_2O) (5M HCl)

Aldrich: 11612-2

Fluka: 7210

Sigma: A1629

>>Derivative: Hydrochloride

CAS Registry Number: 67607-42-5

Optical Rotation: $[\alpha]_{\text{D}}^{20} +14.1$

>>Derivative: N-Formyl

Molecular Formula: $\text{C}_5\text{H}_9\text{NO}_3$

Molecular Weight: 131.131

Accurate Mass: 131.058244

Percentage Composition: C 45.80%; H 6.92%; N 10.68%; O 36.60%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 126°

Optical Rotation: $[\alpha]_{\text{D}}^{20} +27.98$ (H_2O)

>>Derivative: Me ester

CAS Registry Number: 74645-03-7

Molecular Formula: $\text{C}_5\text{H}_{11}\text{NO}_2$

Molecular Weight: 117.147

Accurate Mass: 117.078979

Percentage Composition: C 51.26%; H 9.46%; N 11.96%; O 27.31%

Boiling Point: Bp₁₅ 62°

Optical Rotation: $[\alpha]_{\text{D}}^{25} -19.44$ (neat)

>>Derivative: Me ester; hydrochloride

CAS Registry Number: 85774-09-0

Physical Description: Cryst. (MeOH/Et₂O)

Melting Point: Mp 150°