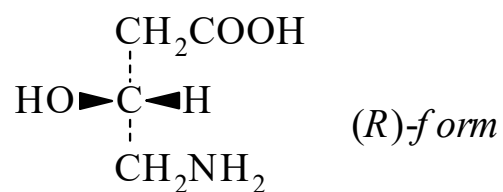




>>Entry Name: 4-Amino-3-hydroxybutanoic acid, 9Cl

Synonym(s): Buksamin. GABOB. Gabomade. Gamibetal



CAS Registry Number: 352-21-6

Molecular Formula: $\text{C}_4\text{H}_9\text{NO}_3$

Molecular Weight: 119.12

Accurate Mass: 119.058244

Percentage Composition: C 40.33%; H 7.62%; N 11.76%; O 40.29%

Biological Use/Importance: CNS neuromodulator, low acute tox. Anticonvulsant

>>Variant: (R)-form

CAS Registry Number: 7013-07-2

Molecular Formula: $\text{C}_4\text{H}_9\text{NO}_3$

Molecular Weight: 119.12

Accurate Mass: 119.058244

Percentage Composition: C 40.33%; H 7.62%; N 11.76%; O 40.29%

Melting Point: Mp 212 dec.°

Optical Rotation: $[\alpha]_{\text{D}}^{25} -20.9$ (c, 1.6 in H_2O)

>>Derivative: N-Benzoyl

Molecular Formula: $\text{C}_{11}\text{H}_{13}\text{NO}_4$

Molecular Weight: 223.228

Accurate Mass: 223.084459

Percentage Composition: C 59.19%; H 5.87%; N 6.27%; O 28.67%

Melting Point: Mp 114° (anhyd.). Mp 80-81° (monohydrate)

Optical Rotation: $[\alpha]_{\text{D}}^{20} -11.84$ (H_2O)

>>Derivative: N,N-Di-Me

Synonym(s): 4-Dimethylamino-3-hydroxybutanoic acid. Norcarnitine

Molecular Formula: $\text{C}_6\text{H}_{13}\text{NO}_3$

Molecular Weight: 147.174

Accurate Mass: 147.089544

Percentage Composition: C 48.97%; H 8.90%; N 9.52%; O 32.61%

Physical Description: Cryst. (2-propanol)

Melting Point: Mp 112°

Optical Rotation: $[\alpha]_{\text{D}}^{22.5} -71.5$ (c, 0.154 in H_2O)

>>Derivative: N,N,N-Tri-Me

see Carnitine, [BDS79-T](#)

>>Variant: (S)-form

CAS Registry Number: 7013-05-0

Molecular Formula: $\text{C}_4\text{H}_9\text{NO}_3$

Molecular Weight: 119.12

Accurate Mass: 119.058244

Percentage Composition: C 40.33%; H 7.62%; N 11.76%; O 40.29%

Melting Point: Mp 214°

Optical Rotation: $[\alpha]_{\text{D}}^{20} +18.3$

>>Derivative: N-Benzoyl

Melting Point: Mp 116° (anhyd.). Mp 78-80° (+ 1 H_2O)

Optical Rotation: $[\alpha]_{\text{D}}^{20} +10$ (H_2O)