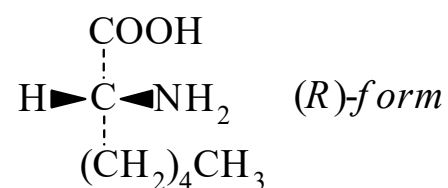




>>Entry Name: 2-Aminoheptanoic acid

Synonym(s): Heptyline



CAS Registry Number: 1188-04-1

Molecular Formula: $\text{C}_7\text{H}_{15}\text{NO}_2$

Molecular Weight: 145.201

Accurate Mass: 145.110279

Percentage Composition: C 57.90%; H 10.41%; N 9.65%; O 22.04%

Biological Source: Prod. by *Claviceps purpurea*

>>Variant: (R)-form

Synonym(s): D-form

Molecular Formula: $\text{C}_7\text{H}_{15}\text{NO}_2$

Molecular Weight: 145.201

Accurate Mass: 145.110279

Percentage Composition: C 57.90%; H 10.41%; N 9.65%; O 22.04%

Optical Rotation: $[\alpha]_{\text{D}}^{27} -24$ (c, 0.04 in 6M HCl)

>>Variant: (S)-form

Synonym(s): L-form

CAS Registry Number: 44902-02-5

Molecular Formula: $\text{C}_7\text{H}_{15}\text{NO}_2$

Molecular Weight: 145.201

Accurate Mass: 145.110279

Percentage Composition: C 57.90%; H 10.41%; N 9.65%; O 22.04%

Physical Description: Needles (H_2O)

Melting Point: Mp 274 dec. $^\circ$

Optical Rotation: $[\alpha]_{\text{D}}^{20} +23.9$ (c, 0.04 in 6M HCl)

>>Variant: ($\pm$)-form

CAS Registry Number: 1115-90-8

Molecular Formula: $\text{C}_7\text{H}_{15}\text{NO}_2$

Molecular Weight: 145.201

Accurate Mass: 145.110279

Percentage Composition: C 57.90%; H 10.41%; N 9.65%; O 22.04%

Physical Description: Plates (H_2O)

Melting Point: Mp 275 dec. $^\circ$

>>Derivative: N-Di-Me, Et ester

Molecular Formula: $\text{C}_{11}\text{H}_{23}\text{NO}_2$

Molecular Weight: 201.308

Accurate Mass: 201.172879

Percentage Composition: C 65.63%; H 11.52%; N 6.96%; O 15.90%

Physical Description: Liq.

Boiling Point: Bp₁₀ 100 $^\circ$

References:

Helms, A., *Ber.*, 1875, **8**, 1168, (*synth*)

Baker, C.G. *et al.*, *J.A.C.S.*, 1951, **73**, 1336, (*resoln, abs config*)

Steiner, M. *et al.*, *Biochem. Z.*, 1964, **340**, 436, (*isol*)