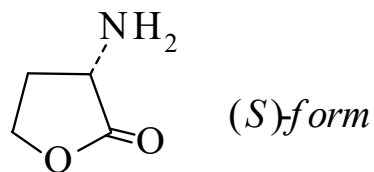




>>Entry Name: 3-Aminodihydro-2(3*H*)-furanone, 9Cl, 8Cl

Synonym(s): Homoserine lactone. 2-Amino-4-butanolide. 2-Amino-4-hydroxybutanoic acid lactone. α -Amino- γ -butyrolactone



CAS Registry Number: 1192-20-7

Related CAS Registry Numbers(s): 2185-03-7 51744-82-2

Molecular Formula: C₄H₇NO₂

Molecular Weight: 101.105

Accurate Mass: 101.047679

Percentage Composition: C 47.52%; H 6.98%; N 13.85%; O 31.65%

Biological Source: Constit. of *Pisum sativum* seedlings

>>Variant: (*R*)-form

CAS Registry Number: 51744-82-2

Molecular Formula: C₄H₇NO₂

Molecular Weight: 101.105

Accurate Mass: 101.047679

Percentage Composition: C 47.52%; H 6.98%; N 13.85%; O 31.65%

Melting Point: Mp 227-229° (dec.) (as hydrochloride)

Optical Rotation: $[\alpha]_D^{20} +27.2$ (c, 1.0 in H₂O) (100% op)

>>Variant: (*S*)-form

Synonym(s): L-form

CAS Registry Number: 2185-02-6

Molecular Formula: C₄H₇NO₂

Molecular Weight: 101.105

Accurate Mass: 101.047679

Percentage Composition: C 47.52%; H 6.98%; N 13.85%; O 31.65%

Sigma: H7890

>>Derivative: Hydrochloride

CAS Registry Number: 2185-03-7

Melting Point: Mp 220-221°

Optical Rotation: $[\alpha]_D -27.7$ (c, 0.2 in H₂O)

Aldrich: 45922-4

Fluka: 7254

>>Derivative: Hydrobromide

CAS Registry Number: 6305-38-0

Melting Point: Mp 242-244° (198-201°)

Optical Rotation: $[\alpha]_D -21$ (c, 0.38 in H₂O)

Aldrich: A4450-9

Fluka: 7253

Sigma: H9769

>>Derivative: *N*-(3ξ-Hydroxybutanoyl)

Synonym(s): *N*-(3-Hydroxybutanoyl)homoserine lactam

CAS Registry Number: 126049-72-7

Molecular Formula: C₈H₁₃NO₄

Molecular Weight: 187.195

Accurate Mass: 187.084459

Percentage Composition: C 51.33%; H 7.00%; N 7.48%; O 34.19%

Biological Source: Prod. by *Vibrio harveyi*

Biological Use/Importance: Autoinducer