



Use/Importance: Intermed. in conversion of homoserine to threonine

>>**Variant:** (±)-form

CAS Registry Number: 1927-25-9

Molecular Formula: C₄H₉NO₃

Molecular Weight: 119.12

Accurate Mass: 119.058244

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

Physical Description: Needles (EtOH aq.)

Melting Point: Mp 186-188 dec.°

Other Data: Readily lactonises

Aldrich: 21977-0

Sigma: H1001

>>**Derivative:** *O*-Ac

CAS Registry Number: 6232-10-6

Biological Source: Found in *Pisum sativum* along with the L-form

Physical Description: Plates (EtOH)

Melting Point: Mp 183-185°

>>**Derivative:** *N*-Benzoyl

Molecular Formula: C₁₁H₁₃NO₄

Molecular Weight: 223.228

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

Physical Description: Needles (H₂O)

Melting Point: Mp 121° (140-144°)

>>**Derivative:** *N*-Benzoyl, Me ester

CAS Registry Number: 78073-39-9

Molecular Formula: C₁₂H₁₅NO₄

Molecular Weight: 237.255

Accurate Mass: 237.100109

Percentage Composition: C 60.75%; H 6.37%; N 5.90%; O 26.97%

Physical Description: Cryst. (H₂O)

Melting Point: Mp 89-91°

>>**Derivative:** *O,N*-Dibenzoyl

Molecular Formula: C₁₈H₁₇NO₅

Molecular Weight: 327.336

Accurate Mass: 327.110674

Percentage Composition: C 66.05%; H 5.23%; N 4.28%; O 24.44%

Physical Description: Plates (EtOH aq.)

Melting Point: Mp 198°

>>**Derivative:** Lactone

see 3-Aminodihydro-2(3*H*)-furanone, [BCR48-X](#)

>>**Derivative:** Me ether

CAS Registry Number: 2598-48-3

Molecular Formula: C₅H₁₁NO₃

Molecular Weight: 133.147

Percentage Composition: C 45.10%; H 8.33%; N 10.52%; O 36.05%

Physical Description: Cryst. (Me₂CO aq.)

Melting Point: Mp 240°