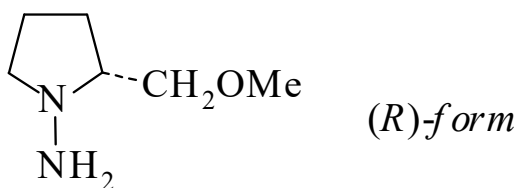




>>Entry Name: 1-Amino-2-methoxymethylpyrrolidine

Synonym(s): 2-(Methoxymethyl)-1-pyrrolidinamine



Molecular Formula: C₆H₁₄N₂O

Molecular Weight: 130.189

Accurate Mass: 130.110613

Percentage Composition: C 55.35%; H 10.84%; N 21.52%; O 12.29%

>>Variant: (R)-form

Synonym(s): RAMP

CAS Registry Number: 72748-99-3

Molecular Formula: C₆H₁₄N₂O

Molecular Weight: 130.189

Accurate Mass: 130.110613

Percentage Composition: C 55.35%; H 10.84%; N 21.52%; O 12.29%

Use/Importance: Chiral auxiliary

Physical Description: Oil

Boiling Point: Bp₅ 62-66°

Optical Rotation: [α]_D²⁰ +79.8 (neat). [α]_D²¹ +49.7 (c, 1.3 in C₆H₆)

Aldrich: 28158-1

Fluka: 8394

Sigma: A4917

>>Variant: (S)-form

Synonym(s): SAMP

CAS Registry Number: 59983-39-0

Molecular Formula: C₆H₁₄N₂O

Molecular Weight: 130.189

Accurate Mass: 130.110613

Percentage Composition: C 55.35%; H 10.84%; N 21.52%; O 12.29%

Use/Importance: Chiral auxiliary used in the asymmetric synth. of α-alkylated aldehydes and ketones and for enantioselective aldol reactions

Physical Description: Liq.

Boiling Point: Bp₃ 56-57°. Bp_{1.8} 42°

Optical Rotation: [α]_D²⁰ -50 (c, 1 in C₆H₆). [α]_D²⁰ -79.6 (neat)

Other Data: Stable on refrigeration

Aldrich: 28157-3

Fluka: 8396

Sigma: A8039

>>Variant: (±)-form

CAS Registry Number: 77257-36-4

Molecular Formula: C₆H₁₄N₂O

Molecular Weight: 130.189

Accurate Mass: 130.110613

Percentage Composition: C 55.35%; H 10.84%; N 21.52%; O 12.29%

Physical Description: Oil

Boiling Point: Bp₃ 56-57°

References:

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