



CAS Registry Number: 193693-60-6
Molecular Formula: C₂₁H₂₁NO₄
Molecular Weight: 351.401
Accurate Mass: 351.147059
Percentage Composition: C 71.78%; H 6.02%; N 3.99%; O 18.21%
Physical Description: Cryst. (MeOH)
Melting Point: Mp 191-192°
Optical Rotation: [α]_D²⁰ -33.6 (c, 0.9 in DMF)

>>Derivative: *N*-Me

Synonym(s): 1-Methyl-2-pyrrolidineacetic acid. Homohygrinic acid

CAS Registry Number: 137693-28-8
Molecular Formula: C₇H₁₃NO₂
Molecular Weight: 143.185
Accurate Mass: 143.094629
Percentage Composition: C 58.72%; H 9.15%; N 9.78%; O 22.35%
Physical Description: Plates (C₆H₆)
Melting Point: Mp 120-122°
Optical Rotation: [α]_D -31.3 (c, 1.0 in EtOH)

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

CAS Registry Number: 51856-76-9

Molecular Formula: C₈H₁₅NO₂
Molecular Weight: 157.212
Accurate Mass: 157.110279
Percentage Composition: C 61.12%; H 9.62%; N 8.91%; O 20.35%
Biological Source: Constit. of *Solanum sturtianum*
Physical Description: Oil
Boiling Point: Bp₇ 80-85°

>>Derivative: 1-Me, nitrile

Synonym(s): 2-Cyanomethyl-1-methylpyrrolidine

CAS Registry Number: 67824-39-9
Molecular Formula: C₇H₁₂N₂
Molecular Weight: 124.185
Accurate Mass: 124.100048
Percentage Composition: C 67.70%; H 9.74%; N 22.56%
Physical Description: Oil
Boiling Point: Bp_{0.5} 45-46°
Optical Rotation: [α]_D -36.6 (c, 3 in MeOH)

References:

- Bremner, J.B. *et al.*, *Aust. J. Chem.*, 1973, **26**, 2559-2561, (*N*-Me Me ester, isol, synth)
Cassal, J.-M. *et al.*, *Helv. Chim. Acta*, 1976, **59**, 1917-1924, (*synth*)
Wakabayashi, T. *et al.*, *Synth. Commun.*, 1977, **7**, 239-244, (*synth*)
Leete, E. *et al.*, *J.A.C.S.*, 1991, **113**, 9286-9292, (*l*-Me, nitrile)
Passreiter, C.M., *Phytochemistry*, 1992, **31**, 4135-4137, (*isol*)
Ellmerer-Müller, E.P. *et al.*, *Helv. Chim. Acta*, 1998, **81**, 59-65, (*Fmoc* deriv, synth, ir, pmr, cmr, ms)