



>>Derivative: Amide

CAS Registry Number: 145232-34-4
Molecular Formula: C₉H₁₈N₂O
Molecular Weight: 170.254
Accurate Mass: 170.141913
Percentage Composition: C 63.49%; H 10.66%; N 16.45%; O 9.40%
Melting Point: Mp 156-157°
Optical Rotation: [α]_D²⁵ −16.5 (c, 3.8 in EtOH)

>>Derivative: *N*-Ac

CAS Registry Number: 97290-54-5
Molecular Formula: C₁₁H₁₉NO₃
Molecular Weight: 213.276
Accurate Mass: 213.136494
Percentage Composition: C 61.95%; H 8.98%; N 6.57%; O 22.51%
Melting Point: Mp 188-189° (205-206°)
Optical Rotation: [α]_D²⁵ −5.5 (c, 8.2 in EtOH)

>>Derivative: *N*-*tert*-Butyloxycarbonyl

CAS Registry Number: 37736-82-6
Molecular Formula: C₁₄H₂₅NO₄
Molecular Weight: 271.356
Accurate Mass: 271.178359
Percentage Composition: C 61.97%; H 9.29%; N 5.16%; O 23.58%
Melting Point: Mp 45-50°
Optical Rotation: [α]_D²³ −13.25 (c, 2 in AcOH)

>>Variant: (±)-form

CAS Registry Number: 55658-63-4
Molecular Formula: C₉H₁₇NO₂
Molecular Weight: 171.239
Accurate Mass: 171.125929
Percentage Composition: C 63.13%; H 10.01%; N 8.18%; O 18.69%
Melting Point: Mp 229-230 dec.°

>>Derivative: Hydrochloride

Melting Point: Mp 246°

>>Derivative: *N*-Ac

CAS Registry Number: 109572-41-0
Physical Description: Needles
Melting Point: Mp 178°

>>Derivative: *N*-Benzoyl

Extra CAS Registry Numbers(s): 206436-98-8 207682-59-5
Molecular Formula: C₁₆H₂₁NO₃
Molecular Weight: 275.347
Accurate Mass: 275.152144
Percentage Composition: C 69.79%; H 7.69%; N 5.09%; O 17.43%
Melting Point: Mp 182-183.5°

References:

Shemin, O. *et al.*, *J.A.C.S.*, 1939, **61**, 2471, (*synth*)
Greenstein, J.P. *et al.*, *J.A.C.S.*, 1952, **74**, 551, (*synth*)
Philips, M.B. *et al.*, *J. Biol. Chem.*, 1957, **227**, 465, (*synth*)
Khosla, M.C. *et al.*, *J. Med. Chem.*, 1972, **15**, 792-795, (*N*-*tert*-butyloxycarbonyl)
Schuda, P.F. *et al.*, *J.O.C.*, 1988, **53**, 873, (*synth*, *pmr*, *ir*)
Crossley, M.J. *et al.*, *J.C.S. Perkin I*, 1998, 1123-1130, (*synth*, *ir*, *pmr*)