



Melting Point: Mp 73-75° (70.5-72.2°)

Optical Rotation: $[\alpha]_D^{18} -18.5$ (c, 6 in EtOH)

Hazard & Toxicity: Irritant

Aldrich: 29888-3

Fluka: 59660

Sigma: I2385

>>Derivative: *N*-Ac

CAS Registry Number: 77887-48-0

Molecular Formula: C₈H₁₃NO₃

Molecular Weight: 171.196

Accurate Mass: 171.089544

Percentage Composition: C 56.13%; H 7.65%; N 8.18%; O 28.04%

Use/Importance: Chiral auxiliary

Optical Rotation: $[\alpha]_D +98.4$ (c, 2.6 in CH₂Cl₂)

>>Derivative: *N*-Propanoyl

CAS Registry Number: 77877-19-1

Use/Importance: Chiral auxiliary

Optical Rotation: $[\alpha]_D^{20} +90$ (c, 8.5 in CHCl₃)

Aldrich: 33530-4

>>Derivative: *N*-(2*E*-Butenoyl)

CAS Registry Number: 90719-29-2

Use/Importance: Chiral auxiliary

Optical Rotation: $[\alpha]_D^{25} +105$ (c, 2 in CHCl₃)

>>Variant: (±)-form

CAS Registry Number: 17016-84-1

Molecular Formula: C₆H₁₁NO₂

Molecular Weight: 129.158

Accurate Mass: 129.078979

Percentage Composition: C 55.80%; H 8.58%; N 10.84%; O 24.77%

Physical Description: Cryst. (CCl₄/Et₂O)

Melting Point: Mp 75° (70-71°)

References:

- Aldrich Library of 13C and 1H FT NMR Spectra*, 1992, **1**, 1263A; 1292B; 1348C, (*nmr*)
Iwakura, Y. *et al.*, *Makromol. Chem.*, 1967, **104**, 56, (*synth*)
Evans, D.A. *et al.*, *Pure Appl. Chem.*, 1981, **53**, 1109, (*rev*)
Evans, D.A., *Aldrichimica Acta*, 1982, **15**, 23, (*rev*)
Kirby, G.W. *et al.*, *J.C.S. Perkin I*, 1985, 1961, (*synth, ir, pmr*)
Doyle, M.P. *et al.*, *J.O.C.*, 1985, **50**, 1663, (*synth, pmr*)
Evans, D.A. *et al.*, *J.O.C.*, 1985, **50**, 1830, (*synth, ir, pmr*)
Gawley, R.E. *et al.*, *J.O.C.*, 1986, **51**, 3076; 1989, **54**, 175, (*synth*)
Gore, M.P. *et al.*, *J.O.C.*, 1986, **51**, 3700, (*synth, ir, pmr*)
Kleschick, W.A. *et al.*, *J.O.C.*, 1987, **52**, 3168, (*synth, ir, pmr*)
Plattner, J.J. *et al.*, *J. Med. Chem.*, 1988, **31**, 2277, (*synth*)
Nishi, T. *et al.*, *Chem. Pharm. Bull.*, 1989, **37**, 2200, (*synth, deriv, ir, pmr, ms*)
Rein, K. *et al.*, *J.A.C.S.*, 1989, **111**, 2211, (*synth*)
Baker, R. *et al.*, *J.C.S. Perkin I*, 1989, 190
Pridgen, L.N. *et al.*, *J.O.C.*, 1989, **54**, 3231, (*synth*)
Wuts, P.G.M. *et al.*, *Synthesis*, 1989, 622, (*synth, ir, pmr, cmr*)
McKillop, A. *et al.*, *Synth. Commun.*, 1995, **25**, 561, (*S-form*)
Pettit, G.R. *et al.*, *J.C.S. Perkin I*, 1996, 853, (*synth, pmr*)