



CAS Registry Number: 33605-73-1
Molecular Formula: $C_5H_5NO_4$
Molecular Weight: 143.099
Accurate Mass: 143.021859
Percentage Composition: C 41.97%; H 3.52%; N 9.79%; O 44.72%
Melting Point: Mp 141°
Aldrich: 42158-8

>>Derivative: *N*-Ac

CAS Registry Number: 41148-79-2
Molecular Formula: $C_6H_7NO_4$
Molecular Weight: 157.126
Percentage Composition: C 45.87%; H 4.49%; N 8.91%; O 40.73%
Melting Point: Mp 177-179°
Optical Rotation: $[\alpha]_D^{26} -37.1$ (c, 1.4 in AcOH)

>>Derivative: *N*-(Chloroacetyl)

CAS Registry Number: 41567-23-1
Molecular Formula: $C_6H_6ClNO_4$
Molecular Weight: 191.57
Accurate Mass: 190.998536
Percentage Composition: C 37.62%; H 3.16%; Cl 18.51%; N 7.31%; O 33.41%
Melting Point: Mp 165-169°

>>Derivative: *N*-(Trifluoroacetyl)

Molecular Formula: $C_6H_4F_3NO_4$
Molecular Weight: 211.097
Accurate Mass: 211.009243
Percentage Composition: C 34.14%; H 1.91%; F 27.00%; N 6.64%; O 30.32%
Physical Description: Needles (Me₂CO/Et₂O/petrol)
Melting Point: Mp 134-135°
Optical Rotation: $[\alpha]_D^{22} -22.3$ (c, 0.63 in DMF)

>>Derivative: *N*-Benzoyl

CAS Registry Number: 54819-23-7
Molecular Formula: $C_{11}H_9NO_4$
Molecular Weight: 219.196
Accurate Mass: 219.053159
Percentage Composition: C 60.28%; H 4.14%; N 6.39%; O 29.20%
Physical Description: Cryst. (Ac₂O)
Melting Point: Mp 204-205°

>>Derivative: *N*-Phthaloyl

CAS Registry Number: 16652-95-2
Molecular Formula: $C_{12}H_7NO_5$
Molecular Weight: 245.191
Accurate Mass: 245.032424
Percentage Composition: C 58.78%; H 2.88%; N 5.71%; O 32.63%
Physical Description: Cryst. (dioxan/Et₂O)
Melting Point: Mp 227-228°
Optical Rotation: $[\alpha]_D^{15} -60$ (c, 0.3 in DMF). $[\alpha]_D^{22.5} -77.8$ (c, 2 in Me₂CO)

>>Derivative: *N*-Benzyloxycarbonyl

CAS Registry Number: 4515-23-5
Molecular Formula: $C_{12}H_{11}NO_5$
Molecular Weight: 249.223
Percentage Composition: C 57.83%; H 4.45%; N 5.62%; O 32.10%
Physical Description: Prisms (petrol)
Melting Point: Mp 124° (113°)
Optical Rotation: $[\alpha]_D^{15} -38.6$ (c, 2.25 in AcOH)
Aldrich: 42372-6