



>>Derivative: *N*-Formyl

CAS Registry Number: 33605-73-1

Molecular Formula: C₅H₅NO₄

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: C₆H₇NO₄

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: [α]_D²⁶ -37.1 (c, 1.4 in AcOH)

>>Derivative: *N*-(Chloroacetyl)

CAS Registry Number: 41567-23-1

Molecular Formula: C₆H₆ClNO₄

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: C₆H₄F₃NO₄

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: [α]_D²² -22.3 (c, 0.63 in DMF)

>>Derivative: *N*-Benzoyl

CAS Registry Number: 54819-23-7

Molecular Formula: C₁₁H₉NO₄

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: C₁₂H₇NO₅

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: [α]_D¹⁵ -60 (c, 0.3 in DMF). [α]_D^{22.5} -77.8 (c, 2 in Me₂CO)

>>Derivative: *N*-Benzyloxycarbonyl

CAS Registry Number: 4515-23-5

Molecular Formula: C₁₂H₁₁NO₅

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°)