



>>Derivative: *N*-Benzenesulfonyl

Molecular Formula: C₁₅H₁₅NO₄S

Molecular Weight: 305.354

Accurate Mass: 305.072179

Percentage Composition: C 59.00%; H 4.95%; N 4.59%; O 20.96%; S 10.50%

Melting Point: Mp 133°

Optical Rotation: [α]_D +6.7

>>Derivative: *N*-(4-Methylbenzenesulfonyl)

CAS Registry Number: 86117-53-5

Molecular Formula: C₁₆H₁₇NO₄S

Molecular Weight: 319.381

Accurate Mass: 319.087829

Percentage Composition: C 60.17%; H 5.36%; N 4.39%; O 20.04%; S 10.04%

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 164-165°

Optical Rotation: [α]_D²⁹ +2.4 (Me₂CO)

>>Derivative: *N*-Chloroacetyl

CAS Registry Number: 137503-97-0

Molecular Formula: C₁₁H₁₂ClNO₃

Molecular Weight: 241.673

Accurate Mass: 241.050571

Percentage Composition: C 54.67%; H 5.00%; Cl 14.67%; N 5.80%; O 19.86%

Melting Point: Mp 125°

Optical Rotation: [α]_D -50.8 (c, 2 in EtOH)

>>Derivative: *N*-Carboxyacetyl

Synonym(s): *N*-Carboxyacetyl-D-phenylalanine. *N*-Malonyl-D-phenylalanine

Molecular Formula: C₁₂H₁₃NO₅

Molecular Weight: 251.238

Accurate Mass: 251.079374

Percentage Composition: C 57.37%; H 5.22%; N 5.58%; O 31.84%

>>Derivative: *N*-Me

Synonym(s): *N*-Methylphenylalanine, 9Cl. 2-Methylamino-3-phenylpropanoic acid

CAS Registry Number: 56564-52-4

Molecular Formula: C₁₀H₁₃NO₂

Molecular Weight: 179.218

Accurate Mass: 179.094629

Percentage Composition: C 67.02%; H 7.31%; N 7.82%; O 17.85%

Physical Description: Needles (H₂O)

Melting Point: Mp 250-253 subl.°

Optical Rotation: [α]_D²⁵ -24.7 (c, 1.6 in 1*M* HCl)

Sigma: M5516

>>Derivative: *N*-Et

CAS Registry Number: 105806-84-6

Molecular Formula: C₁₁H₁₅NO₂

Molecular Weight: 193.245

Accurate Mass: 193.110279

Percentage Composition: C 68.37%; H 7.82%; N 7.25%; O 16.56%

Melting Point: Mp 238-240 dec.°

Optical Rotation: [α]_D²⁰ -53 (c, 1 in 0.1*M* NaOH)