



Molecular Weight: 269.299
Accurate Mass: 269.105194
Percentage Composition: C 71.36%; H 5.61%; N 5.20%; O 17.82%
Biological Source: Metab. of *Penicillium brevicompactum*
Melting Point: Mp 142-143°
Optical Rotation: $[\alpha]_{\text{D}} +19.8$
Sigma: B9382

>>Derivative: *N*-Methanesulfonyl, chloride

Physical Description: Needles (hexane/Et₂O)
Melting Point: Mp 85-86°
Optical Rotation: $[\alpha]_{\text{D}}^{20} +4.3$ (c, 1.6 in THF)

>>Derivative: *N*-Methanesulfonyl

CAS Registry Number: 42361-65-9
Molecular Formula: C₁₀H₁₃NO₄S
Molecular Weight: 243.283
Accurate Mass: 243.056529
Percentage Composition: C 49.37%; H 5.39%; N 5.76%; O 26.31%; S 13.18%
Physical Description: Needles (CHCl₃)
Melting Point: Mp 105-107°
Optical Rotation: $[\alpha]_{\text{D}}^{20} -16.7$ (c, 4.2 in CHCl₃)

>>Derivative: *N*-Benzenesulfonyl

CAS Registry Number: 40279-95-6
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: $[\alpha]_{\text{D}} -7$

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

CAS Registry Number: 13505-32-3
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%
Melting Point: Mp 163-164°

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

CAS Registry Number: 29739-88-6
Molecular Formula: C₁₆H₁₆ClNO₃S
Molecular Weight: 337.826
Accurate Mass: 337.053941
Percentage Composition: C 56.89%; H 4.77%; Cl 10.49%; N 4.15%; O 14.21%; S 9.49%
Use/Importance: Resolving agent
Melting Point: Mp 132 dec.°
Optical Rotation: $[\alpha]_{\text{D}}^{22} +9$ (c, 3 in CHCl₃)

>>Derivative: 4-Methylbenzenesulfonyl, benzyl ester

CAS Registry Number: 1738-78-9
Molecular Formula: C₂₃H₂₃NO₄S
Molecular Weight: 409.505
Accurate Mass: 409.134779
Percentage Composition: C 67.46%; H 5.66%; N 3.42%; O 15.63%; S 7.83%
Physical Description: Cryst. (Et₂O/petrol)
Melting Point: Mp 170.5-171.5° (164-165.5°)
Optical Rotation: $[\alpha]_{\text{D}}^{20} +7.8$ (c, 2 in DMF). $[\alpha]_{\text{D}}^{25} -7.2$ (c, 1 in MeOH)