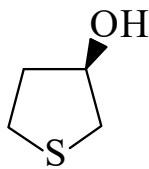




>>Entry Name: Tetrahydrothiophene-3-ol, 9CI

Synonym(s): 3-Hydroxytetrahydrothiophene. 3-Thiolanol. 3-Hydroxythiolane



(*R*)-form

CAS Registry Number: 3334-05-2

Related CAS Registry Numbers(s): 92630-07-4

Molecular Formula: C₄H₈OS

Molecular Weight: 104.173

Accurate Mass: 104.029585

Percentage Composition: C 46.12%; H 7.74%; O 15.36%; S 30.78%

>>Variant: (*R*)-form

CAS Registry Number: 100937-75-5

Molecular Formula: C₄H₈OS

Molecular Weight: 104.173

Accurate Mass: 104.029585

Percentage Composition: C 46.12%; H 7.74%; O 15.36%; S 30.78%

Boiling Point: Bp_{0.2} 45°

Optical Rotation: [α]_D +13.93 (c, 1.4 in CHCl₃)

>>Derivative: 4-Methylbenzenesulfonyl

CAS Registry Number: 120735-09-3

Molecular Formula: C₁₁H₁₄O₃S₂

Molecular Weight: 258.362

Accurate Mass: 258.038435

Percentage Composition: C 51.14%; H 5.46%; O 18.58%; S 24.82%

Physical Description: Oil

Optical Rotation: [α]_D +16.76 (c, 2.98 in CHCl₃)

>>Derivative: *S*-Oxide (*trans*-)

CAS Registry Number: 120788-02-5

Molecular Formula: C₄H₈O₂S

Molecular Weight: 120.172

Accurate Mass: 120.0245

Percentage Composition: C 39.98%; H 6.71%; O 26.63%; S 26.68%

Physical Description: Waxy solid (as 4-methylbenzenesulfonyl)

Optical Rotation: [α]_D +4.26 (c, 3.0 in CHCl₃) (4-methylbenzenesulfonyl)

>>Variant: (*S*)-form

CAS Registry Number: 79107-75-8

Molecular Formula: C₄H₈OS

Molecular Weight: 104.173

Accurate Mass: 104.029585

Percentage Composition: C 46.12%; H 7.74%; O 15.36%; S 30.78%

Boiling Point: Bp_{0.3} 44-48°

Optical Rotation: [α]_D²⁵ -14.5 (c, 1 in CHCl₃)

>>Variant: (±)-form

CAS Registry Number: 79107-71-4

Molecular Formula: C₄H₈OS

Molecular Weight: 104.173

Accurate Mass: 104.029585

Percentage Composition: C 46.12%; H 7.74%; O 15.36%; S 30.78%

Physical Description: Oil

Boiling Point: Bp_{0.25} 53°