



>>Entry Name: Tetrahydro-2-furancarboxylic acid

Synonym(s): Tetrahydropyromucic acid. Tetrahydro-β-furoic acid. Oxolan-2-carboxylic acid



CAS Registry Number: 16874-33-2

Related CAS Registry Numbers(s): 37443-42-8

Molecular Formula: C₅H₈O₃

Molecular Weight: 116.116

Accurate Mass: 116.047345

Percentage Composition: C 51.72%; H 6.94%; O 41.34%

Aldrich: 34151-7

Fluka: 87375

Rare Chemicals Library: S62741-0

>>Variant: (R)-form

CAS Registry Number: 87392-05-0

Molecular Formula: C₅H₈O₃

Molecular Weight: 116.116

Accurate Mass: 116.047345

Percentage Composition: C 51.72%; H 6.94%; O 41.34%

Boiling Point: Bp_{0.07} 90°

Optical Rotation: [α]_D +30.4 (c, 1.01 in CHCl₃)

>>Derivative: Me ester

CAS Registry Number: 87324-00-3

Molecular Formula: C₆H₁₀O₃

Molecular Weight: 130.143

Accurate Mass: 130.062995

Percentage Composition: C 55.37%; H 7.74%; O 36.88%

Boiling Point: Bp_{0.1} 50°

Optical Rotation: [α]_D -8 (c, 0.92 in MeOH)

>>Derivative: Nitrile

Synonym(s): 2-Cyanotetrahydrofuran

Molecular Formula: C₅H₇NO

Molecular Weight: 97.116

Accurate Mass: 97.052764

Percentage Composition: C 61.84%; H 7.26%; N 14.42%; O 16.47%

Optical Rotation: [α]_D²² -26.1 (c, 0.85 in CHCl₃) (92% ee)

>>Variant: (S)-form

CAS Registry Number: 87392-07-2

Molecular Formula: C₅H₈O₃

Molecular Weight: 116.116

Accurate Mass: 116.047345

Percentage Composition: C 51.72%; H 6.94%; O 41.34%

Optical Rotation: [α]_D -30.1 (c, 1.2 in CHCl₃)

>>Derivative: Me ester

CAS Registry Number: 87324-01-4

Molecular Formula: C₆H₁₀O₃

Molecular Weight: 130.143

Percentage Composition: C 55.37%; H 7.74%; O 36.88%

Optical Rotation: [α]_D +8.1 (c, 1.05 in MeOH)