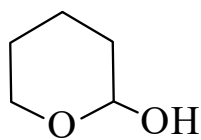




>>Entry Name: Tetrahydro-2*H*-pyran-2-ol, 9CI

Synonym(s): 2-Hydroxytetrahydropyran



CAS Registry Number: 694-54-2

Molecular Formula: C₅H₁₀O₂

Molecular Weight: 102.133

Accurate Mass: 102.06808

Percentage Composition: C 58.80%; H 9.87%; O 31.33%

>>Variant: (±)-form

CAS Registry Number: 118992-14-6

Molecular Formula: C₅H₁₀O₂

Molecular Weight: 102.133

Accurate Mass: 102.06808

Percentage Composition: C 58.80%; H 9.87%; O 31.33%

Use/Importance: The tetrahydropyranyloxy group is a useful acid-labile protecting group. Therefore many ethers known

Physical Description: Oil

Boiling Point: Bp₆ 66-67°

>>Derivative: Et ether

Synonym(s): 2-Ethoxytetrahydropyran

CAS Registry Number: 4819-83-4

Extra CAS Registry Numbers(s): 132759-43-4

Molecular Formula: C₇H₁₄O₂

Molecular Weight: 130.186

Accurate Mass: 130.09938

Percentage Composition: C 64.58%; H 10.84%; O 24.58%

Physical Description: Oil

Boiling Point: Bp₁₃ 44°

>>Derivative: 2-Propynyl ether

Synonym(s): Tetrahydro-2-(2-propynyloxy)-2*H*-pyran, 9CI

CAS Registry Number: 6089-04-9

Extra CAS Registry Numbers(s): 69841-59-4

Molecular Formula: C₈H₁₂O₂

Molecular Weight: 140.182

Accurate Mass: 140.08373

Percentage Composition: C 68.55%; H 8.63%; O 22.83%

Boiling Point: Bp₉ 63-65°

Refractive Index: n_D²⁰ 1.4580

Aldrich: 30081-0

>>Derivative: 3-Butynyl ether

CAS Registry Number: 40365-61-5

Molecular Formula: C₉H₁₄O₂

Molecular Weight: 154.208

Accurate Mass: 154.09938

Percentage Composition: C 70.10%; H 9.15%; O 20.75%

Use/Importance: Used for the synth. of γ-hydroxy-α,β-acetylenic acids, esters and ketones

Physical Description: Liq.

Boiling Point: Bp₁₈ 92-95°

Density: d 0.98

Refractive Index: n_D²⁰ 1.4570

References: