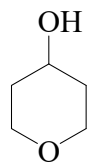




>>Entry Name: Tetrahydro-2*H*-pyran-4-ol, 9CI

Synonym(s): 4-Hydroxytetrahydropyran



CAS Registry Number: 2081-44-9

Molecular Formula: C<sub>5</sub>H<sub>10</sub>O<sub>2</sub>

Molecular Weight: 102.133

Accurate Mass: 102.06808

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

Physical Description: Oil

Boiling Point: Bp<sub>39</sub> 122°. Bp<sub>25</sub> 99-101°. Bp<sub>10</sub> 80°

Density: d<sub>4</sub><sup>20</sup> 1.07

Refractive Index: n<sub>D</sub><sup>20</sup> 1.4612

Aldrich: 19823-4

Fluka: 87474

>>Derivative: Ac

CAS Registry Number: 36234-16-9

Molecular Formula: C<sub>7</sub>H<sub>12</sub>O<sub>3</sub>

Molecular Weight: 144.17

Accurate Mass: 144.078645

Percentage Composition: C 58.32%; H 8.39%; O 33.29%

Physical Description: Fragrant liq.

Boiling Point: Bp<sub>1</sub> 47.5°

Density: d<sub>4</sub><sup>20</sup> 1.07

Refractive Index: n<sub>D</sub><sup>20</sup> 1.4413

>>Derivative: 4-Nitrobenzoyl

Physical Description: Cryst. (petrol/Et<sub>2</sub>O)

Melting Point: Mp 69-71°

>>Derivative: Phenylurethane

Physical Description: Cryst. (petrol)

Melting Point: Mp 97-99°

>>Derivative: 1-Naphthylurethane

Physical Description: Cryst. (petrol)

Melting Point: Mp 130-132°

>>Derivative: Methanesulfonyl

CAS Registry Number: 134419-59-3

Molecular Formula: C<sub>6</sub>H<sub>12</sub>O<sub>4</sub>S

Molecular Weight: 180.224

Accurate Mass: 180.04563

Percentage Composition: C 39.99%; H 6.71%; O 35.51%; S 17.79%

Physical Description: Needles (EtOH)

Melting Point: Mp 49-50°

>>Derivative: 4-Methylbenzenesulfonyl

CAS Registry Number: 97986-34-0

Molecular Formula: C<sub>12</sub>H<sub>16</sub>O<sub>4</sub>S

Molecular Weight: 256.322

Accurate Mass: 256.07693

Percentage Composition: C 56.23%; H 6.29%; O 24.97%; S 12.51%

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 56°