



>>Entry Name: Chloromethanol

CAS Registry Number: 15454-33-8
ClCH2OH

Molecular Formula: CH3ClO
Molecular Weight: 66.487
Accurate Mass: 65.987242
Percentage Composition: C 18.07%; H 4.55%; Cl 53.32%; O 24.06%

>>Derivative: Ac

CAS Registry Number: 625-56-9
Molecular Formula: C3H5ClO2
Molecular Weight: 108.524
Accurate Mass: 107.997807
Percentage Composition: C 33.20%; H 4.64%; Cl 32.67%; O 29.49%
Use/Importance: Alkylating agent
Physical Description: Oil
Boiling Point: Bp₇₄₈ 113-115°. Bp₅ 28°
Refractive Index: n_D²⁰ 1.4102

>>Derivative: Chloroacetyl

CAS Registry Number: 6135-23-5
Molecular Formula: C3H4Cl2O2
Molecular Weight: 142.969
Accurate Mass: 141.958834
Percentage Composition: C 25.20%; H 2.82%; Cl 49.60%; O 22.38%
Physical Description: Oil
Boiling Point: Bp₇₄₅ 130-132°. Bp₂₁ 77.5°
Refractive Index: n_D²⁰ 1.4603

>>Derivative: Trichloroacetyl

Molecular Formula: C3H2Cl4O2
Molecular Weight: 211.858
Accurate Mass: 209.880888
Percentage Composition: C 17.01%; H 0.95%; Cl 66.94%; O 15.10%
Physical Description: Oil
Boiling Point: Bp 170°. Bp₁₀ 68°
Density: d₄²⁵ 1.6
Refractive Index: n_D²⁰ 1.5988

>>Derivative: Benzoyl

CAS Registry Number: 5335-05-7
Molecular Formula: C8H7ClO2
Molecular Weight: 170.595
Accurate Mass: 170.013457
Percentage Composition: C 56.33%; H 4.14%; Cl 20.78%; O 18.76%
Physical Description: Oil
Boiling Point: Bp₈ 114-115°. Bp₆ 98-99°
Density: d₄²⁵ 1.233
Refractive Index: n_D²⁵ 1.5328

>>Derivative: 4-Methylbenzenesulfonyl

CAS Registry Number: 117184-50-6
Molecular Formula: C8H9ClO3S
Molecular Weight: 220.676
Accurate Mass: 219.996092
Percentage Composition: C 43.54%; H 4.11%; Cl 16.07%; O 21.75%; S 14.53%
Physical Description: Oil
Boiling Point: Bp_{0.4} 99-101°

References: