



>>Entry Name: Aminomethanol, 9CI

Synonym(s): Hydroxymethylamine

CAS Registry Number: 3088-27-5

Related CAS Registry Numbers(s): 57777-75-0 64709-69-9 110596-45-7 122972-44-5

$\text{H}_2\text{NCH}_2\text{OH}$

Molecular Formula: CH_5NO

Molecular Weight: 47.057

Accurate Mass: 47.037114

Percentage Composition: C 25.52%; H 10.71%; N 29.77%; O 34.00%

General Statement: Parent compd. poorly characterised, has been encountered mostly as a reaction intermed.

Physical Description: Unstable liq.

Other Data: Appears to be stabilised by Cu, Mn and/or Co ions

>>Derivative: *N*-Ac

Synonym(s): *N*-(Hydroxymethyl)acetamide

CAS Registry Number: 625-51-4

Molecular Formula: $\text{C}_3\text{H}_7\text{NO}_2$

Molecular Weight: 89.094

Accurate Mass: 89.047679

Percentage Composition: C 40.44%; H 7.92%; N 15.72%; O 35.92%

Physical Description: Cryst. (EtOAc/ Me_2CO)

Melting Point: Mp 54-56°

>>Derivative: *N*-Benzoyl

see *N*-(Hydroxymethyl)benzamide, [KGR54-T](#)

>>Derivative: *N*-Me

Synonym(s): (Methylamino)methanol

CAS Registry Number: 3400-38-2

Molecular Formula: $\text{C}_2\text{H}_7\text{NO}$

Molecular Weight: 61.083

Accurate Mass: 61.052764

Percentage Composition: C 39.33%; H 11.55%; N 22.93%; O 26.19%

Physical Description: Liq.

Density: $d^{11.6}$ 0.95

>>Derivative: *N,O*-Di-Me

Molecular Formula: $\text{C}_3\text{H}_9\text{NO}$

Molecular Weight: 75.11

Accurate Mass: 75.068414

Percentage Composition: C 47.97%; H 12.08%; N 18.65%; O 21.30%

Boiling Point: Bp_{14} 90°

Refractive Index: n_D^{22} 1.4381

>>Derivative: *N,N*-Di-Me

Synonym(s): (Dimethylamino)methanol

CAS Registry Number: 14002-21-2

Molecular Formula: $\text{C}_3\text{H}_9\text{NO}$

Molecular Weight: 75.11

Accurate Mass: 75.068414

Percentage Composition: C 47.97%; H 12.08%; N 18.65%; O 21.30%

Physical Description: Oil

Melting Point: Mp 5°

Density: $d^{11.6}$ 0.82

Refractive Index: n_D^{20} 1.4050

Other Data: Unstable, stored in refrigerator

>>Derivative: *N,N*-Di-Me, picrate

Physical Description: Prisms

Melting Point: Mp 91°