



>>Entry Name: 1-Amino-2-propanone, 9Cl

Synonym(s): Aminoacetone

CAS Registry Number: 298-08-8

$\text{H}_3\text{CCOCH}_2\text{NH}_2$

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

Molecular Weight: 73.094

Accurate Mass: 73.052764

Percentage Composition: C 49.30%; H 9.65%; N 19.16%; O 21.89%

Biological Source: Prod. by microorganisms. Hydrol. prod. of Micrococcin P₁ [CKH92-X](#)

Use/Importance: Used in synth. of nitrogen heterocycles

>>Derivative: Hydrochloride

CAS Registry Number: 7737-17-9

Physical Description: Plates (EtOH/Et₂O)

Melting Point: Mp 75°. Mp 130.5°

Other Data: Very hygroscopic

Sigma: A9411

>>Derivative: Semicarbazone; hydrochloride

Melting Point: Mp 212°

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

Synonym(s): 1-(Dimethylamino)-2-propanone, 9Cl. Dimethylaminoacetone. Acetonyldimethylamine

CAS Registry Number: 15364-56-4

Molecular Formula: $\text{C}_5\text{H}_{11}\text{NO}$

Molecular Weight: 101.148

Accurate Mass: 101.084064

Percentage Composition: C 59.37%; H 10.96%; N 13.85%; O 15.82%

Physical Description: Liq.

Boiling Point: Bp 123°

Solubility: Sol. H₂O, EtOH, Et₂O

Aldrich: 10769-7

Fluka: 38970

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

Molecular Formula: $\text{C}_5\text{H}_{12}\text{N}_2\text{O}$

Molecular Weight: 116.163

Accurate Mass: 116.094963

Percentage Composition: C 51.70%; H 10.41%; N 24.12%; O 13.77%

Melting Point: Mp 99°

Solubility: Sol. H₂O, EtOH, Et₂O

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

Synonym(s): 1-(Diethylamino)-2-propanone, 9Cl. Diethylaminoacetone

CAS Registry Number: 1620-14-0

Molecular Formula: $\text{C}_7\text{H}_{15}\text{NO}$

Molecular Weight: 129.202

Accurate Mass: 129.115364

Percentage Composition: C 65.07%; H 11.70%; N 10.84%; O 12.38%

Boiling Point: Bp 158-160°. Bp₁₆ 55-58°

Aldrich: D8600-0

>>Derivative: *N,N*-Di-Et, hydrochloride

Physical Description: Cryst. (EtOH/Et₂O)

Melting Point: Mp 99-101° (sealed tube)