



>>Entry Name: Aminoacetaldehyde, 9CI

Synonym(s): Glycine aldehyde. Aminoethanal. Glycinaldehyde

CAS Registry Number: 6542-88-7

H₂NCH₂CHO

Molecular Formula: C₂H₅NO

Molecular Weight: 59.068

Accurate Mass: 59.037114

Percentage Composition: C 40.67%; H 8.53%; N 23.71%; O 27.09%

Other Data: Stable in conc. acid solns. Readily polymerises

>>Derivative: *N*-Benzoyl

Synonym(s): Benzamidoacetaldehyde. *N*-(2-Oxoethyl)benzamide, 9CI. Hippuric aldehyde. Hippuraldehyde

CAS Registry Number: 6542-76-3

Molecular Formula: C₉H₉NO₂

Molecular Weight: 163.176

Accurate Mass: 163.063329

Percentage Composition: C 66.25%; H 5.56%; N 8.58%; O 19.61%

Use/Importance: Enzyme inhibitor

Physical Description: Resin

Melting Point: Mp 207-209° (as dinitrophenylhydrazone)

>>Derivative: *N*-(*tert*-Butyloxycarbonyl)

Molecular Formula: C₇H₁₃NO₃

Molecular Weight: 159.185

Accurate Mass: 159.089544

Percentage Composition: C 52.82%; H 8.23%; N 8.80%; O 30.15%

Physical Description: Semicrystalline solid

>>Derivative: Di-Me acetal

Synonym(s): 2,2-Dimethoxyethanamine, 9CI. 2,2-Dimethoxyethylamine, 8CI

CAS Registry Number: 22483-09-6

Molecular Formula: C₄H₁₁NO₂

Molecular Weight: 105.136

Accurate Mass: 105.078979

Percentage Composition: C 45.70%; H 10.55%; N 13.32%; O 30.44%

Boiling Point: Bp₉₅ 135-139°

Refractive Index: n_D²⁵ 1.4144

Aldrich: 12196-7

Fluka: 6579

Sigma: A5023

>>Derivative: Di-Et acetal

Synonym(s): 2,2-Diethoxyethanamine, 9CI. 2,2-Diethoxyethylamine. Aminoacetal

CAS Registry Number: 645-36-3

Molecular Formula: C₆H₁₅NO₂

Molecular Weight: 133.19

Accurate Mass: 133.110279

Percentage Composition: C 54.11%; H 11.35%; N 10.52%; O 24.02%

Boiling Point: Bp 163°

Solubility: Sol. H₂O, EtOH, Et₂O, CHCl₃

Other Data: Steam-volatile. Alkaline reaction

Aldrich: A3720-0

Fluka: 6570

Sigma: A4898