



>>Entry Name: 2-Aminoacetamide, 9CI
Synonym(s): Glycine amide. Glycinamide

CAS Registry Number: 598-41-4
 $\text{H}_2\text{NCH}_2\text{CO}^\alpha\text{NH}_2$

Molecular Formula: $\text{C}_2\text{H}_6\text{N}_2\text{O}$
Molecular Weight: 74.082
Accurate Mass: 74.048013
Percentage Composition: C 32.43%; H 8.16%; N 37.81%; O 21.60%
Physical Description: Needles
Melting Point: Mp 65-67°
Solubility: Sol. H_2O , EtOH; spar. sol. Et_2O , C_6H_6
pKa Value: pK_a 7.95 (25°)
Other Data: Strongly alkaline. Absorbs CO_2 from air

>>Derivative: Hydrochloride

CAS Registry Number: 1668-10-6
Melting Point: Mp 207-208°
Aldrich: G610-4
Fluka: 50070
Sigma: G7378

>>Derivative: N^α -Formyl

Molecular Formula: $\text{C}_3\text{H}_6\text{N}_2\text{O}_2$
Molecular Weight: 102.093
Accurate Mass: 102.042928
Percentage Composition: C 35.29%; H 5.92%; N 27.44%; O 31.34%
Use/Importance: Intermed. in purine biosynthesis
Physical Description: Amorph.

>>Derivative: N^α -(2,6-Dimethylphenyl)
see 2-Amino- N -(2,6-dimethylphenyl)acetamide, [HOV52-I](#)

References:

Aldrich Library of NMR Spectra, 2nd edn., 1983, **1**, 634C, (*nmr*)
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Yang, P.S. *et al.*, *J.A.C.S.*, 1931, **53**, 3183, (*synth*)
Cook, A.H. *et al.*, *J.C.S.*, 1948, 201, (*use*)
Peabody, R.A. *et al.*, *J.A.C.S.*, 1954, **76**, 5258, (*use*)
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