



>>Entry Name: Aminoacetonitrile, 9CI

Synonym(s): Glycine nitrile. Glycinonitrile. Cyanomethylamine. Aminocyanomethane

CAS Registry Number: 540-61-4

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

Molecular Formula: $\text{C}_2\text{H}_4\text{N}_2$

Molecular Weight: 56.067

Accurate Mass: 56.037448

Percentage Composition: C 42.85%; H 7.19%; N 49.96%

Physical Description: Liq.

Boiling Point: Bp_{15} 58° part. dec.

pKa Value: $\text{pK}_{\text{a}1}$ 5.34 (25°)

Hazard & Toxicity: Exp. teratogen

Sigma: A5802

>>Derivative: Hydrochloride

CAS Registry Number: 6011-14-9

Melting Point: Mp 165 dec.°

Solubility: Spar. sol. EtOH, Et₂O

Other Data: Hygroscopic

Hazard & Toxicity: Exp. teratogen (oral administration)

Aldrich: 13052-4

Fluka: 6605

Sigma: A6895

>>Derivative: Sulfate

CAS Registry Number: 151-63-3

Melting Point: Mp 101°

Solubility: Sol. H₂O; insol. Et₂O

Aldrich: 27999-4

Fluka: 6610

>>Derivative: Picrate

Melting Point: Mp 165 dec.°

>>Derivative: *N*-Ac

see under , in *N*-Acetylglycine, [BDL52-X](#)

>>Derivative: *N*-Benzoyl

see under , in *N*-Benzoylglycine, [BDD82-S](#)

>>Derivative: *N*-Cinnamoyl

see under , in Cinnamoylglycine, [BCZ91-T](#)

>>Derivative: *N*-(Carboxymethyl)

see under , in Iminodiacetic acid, [CVG69-P](#)

>>Derivative: *N*-Me

see under , in 2-Methylaminoacetic acid, [HCM00-S](#)

>>Derivative: *N*-Et

see under , in *N*-Ethylglycine, [BCQ76-Z](#)

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