



>>Entry Name: 2-Aminoethanethioamide, 9CI

Synonym(s): 2-Aminothioacetamide. Glycine thioamide

CAS Registry Number: 105301-27-7

H2NCH2C(S)NH2

Molecular Formula: C2H6N2S

Molecular Weight: 90.149

Accurate Mass: 90.025168

Percentage Composition: C 26.65%; H 6.71%; N 31.07%; S 35.57%

>>Derivative: Hydrochloride

CAS Registry Number: 89226-27-7

Physical Description: Cryst. (EtOH aq. or MeCN)

Melting Point: Mp 173 dec.° (160-161°)

>>Derivative: Hydrobromide

CAS Registry Number: 3054-26-0

Physical Description: Cryst.

Melting Point: Mp 158-159°

>>Derivative: *N*²-Benzoyl

Synonym(s): *N*-(2-Amino-2-thioxoethyl)benzamide, 9CI. *N*-[(Thiocarbamoyl)methyl]benzamide

CAS Registry Number: 55443-42-0

Molecular Formula: C9H10N2OS

Molecular Weight: 194.257

Accurate Mass: 194.051383

Percentage Composition: C 55.65%; H 5.19%; N 14.42%; O 8.24%; S 16.51%

Physical Description: Yellow cryst.

Melting Point: Mp 149-150°

Rare Chemicals Library: S41018-7

>>Derivative: *N*-tert-Butyloxycarbonyl

CAS Registry Number: 89226-13-1

Molecular Formula: C7H14N2O2S

Molecular Weight: 190.266

Accurate Mass: 190.077598

Percentage Composition: C 44.19%; H 7.42%; N 14.72%; O 16.82%; S 16.85%

Physical Description: Cryst. (MeOH/Et₂O)

Melting Point: Mp 126-126.5°

>>Derivative: *N*-Benzyloxycarbonyl

Synonym(s): Phenylmethyl *N*-(2-amino-2-thioxoethyl)carbamate, 9CI

CAS Registry Number: 49548-40-5

Molecular Formula: C10H12N2O2S

Molecular Weight: 224.283

Accurate Mass: 224.061948

Percentage Composition: C 53.55%; H 5.39%; N 12.49%; O 14.27%; S 14.30%

Physical Description: Cryst. (EtOAc/CHCl₃/hexane)

Melting Point: Mp 146-148°

>>Derivative: *N*²,*N*²-Di-Me

CAS Registry Number: 27507-28-4

Molecular Formula: C4H10N2S

Molecular Weight: 118.202

Accurate Mass: 118.056468

Percentage Composition: C 40.65%; H 8.53%; N 23.70%; S 27.13%

Physical Description: Cryst. (hexane)

Melting Point: Mp 80-81°

References: