



>>Entry Name: (Methylthio)acetic acid

Synonym(s): Methylmercaptoacetic acid. *S*-(Methylthio)glycolic acid. Dimethyl sulfide carboxylic acid

CAS Registry Number: 2444-37-3

MeSCH₂COOH

Molecular Formula: C₃H₆O₂S

Molecular Weight: 106.145

Accurate Mass: 106.00885

Percentage Composition: C 33.95%; H 5.70%; O 30.15%; S 30.21%

Boiling Point: Bp₂₇ 130-131°

Density: d₂₀²⁰ 1.223

Refractive Index: n_D²⁰ 1.4950

Aldrich: 35948-3

Fluka: 69330

>>Derivative: Me ester

CAS Registry Number: 16630-66-3

Molecular Formula: C₄H₈O₂S

Molecular Weight: 120.172

Accurate Mass: 120.0245

Percentage Composition: C 39.98%; H 6.71%; O 26.63%; S 26.68%

Boiling Point: Bp₁₁ 53-55°

Aldrich: W50966-3

Fluka: 69340

>>Derivative: Et ester

CAS Registry Number: 4455-13-4

Molecular Formula: C₅H₁₀O₂S

Molecular Weight: 134.199

Accurate Mass: 134.04015

Percentage Composition: C 44.75%; H 7.51%; O 23.84%; S 23.89%

Boiling Point: Bp₂₅ 70-72°

Aldrich: 20971-6

>>Derivative: Anilide

CAS Registry Number: 10156-36-2

Molecular Formula: C₉H₁₁NOS

Molecular Weight: 181.258

Accurate Mass: 181.056134

Percentage Composition: C 59.64%; H 6.12%; N 7.73%; O 8.83%; S 17.69%

Physical Description: Needles (Et₂O/petrol)

Melting Point: Mp 80°

>>Derivative: Nitrile

Synonym(s): (Methylthio)acetonitrile, 9Cl. Cyano(methylthio)methane

CAS Registry Number: 35120-10-6

Molecular Formula: C₃H₅NS

Molecular Weight: 87.145

Accurate Mass: 87.014269

Percentage Composition: C 41.35%; H 5.78%; N 16.07%; S 36.80%

Use/Importance: Synthetic intermed.

Physical Description: Liq.

Boiling Point: Bp₃₀ 72°

Density: d₄²⁰ 1.04

Hazard & Toxicity: Lachrymator

Aldrich: 16082-2

>>Derivative: S-Oxide; Et ester

Synonym(s): Ethyl α-methylsulfinylacetate