



>>Entry Name: Methanedithiol, 9CI

ENTRY UNDER REVIEW

Synonym(s): Dimercaptomethane

CAS Registry Number: 6725-64-0

Related CAS Registry Numbers(s): 105064-28-6

$\text{H}_2\text{C}(\text{SH})_2$

Molecular Formula: CH_4S_2

Molecular Weight: 80.175

Accurate Mass: 79.97544

Percentage Composition: C 14.98%; H 5.03%; S 79.99%

Source/Synthesis: Component of mushroom and onion flavour

Use/Importance: Intermed. in the synth. of organosulfur pesticides and herbicides

Physical Description: Liq. with powerful offensive odour

Boiling Point: Bp_{80} 58°

Refractive Index: n_D^{25} 1.5840

>>Derivative: Ca salt

CAS Registry Number: 135778-01-7

Use/Importance: Catalyst for the stereospecific polym. of acrylonitrile

Physical Description: Solid

>>Derivative: *S,S*-Dibenzoyl

Synonym(s): Methylene thiolbenzoate

Molecular Formula: $\text{C}_{15}\text{H}_{12}\text{O}_2\text{S}_2$

Molecular Weight: 288.391

Accurate Mass: 288.02787

Percentage Composition: C 62.47%; H 4.19%; O 11.10%; S 22.24%

Physical Description: Long needles (EtOH)

Melting Point: Mp 119-119.5°

>>Derivative: *S*-Me, *S*-Ac

Synonym(s): *S*-[(Methylthio)methyl]ethanethioate

CAS Registry Number: 38634-59-2

Molecular Formula: $\text{C}_4\text{H}_8\text{OS}_2$

Molecular Weight: 136.239

Accurate Mass: 136.001655

Percentage Composition: C 35.26%; H 5.92%; O 11.74%; S 47.07%

Physical Description: Liq.

Boiling Point: Bp_{11} 71-72°

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

>>Derivative: *S,S*-Di-Et

>>Derivative: *S,S*-Di-Ph

>>Derivative: *S,S*-Divinyl

References: