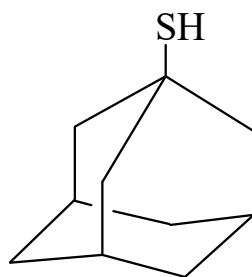




>>Entry Name: 1-Adamantanethiol

Synonym(s): Tricyclo[3.3.1.1^{3,7}]decane-1-thiol, 9CI. 1-Mercaptoadamantane



CAS Registry Number: 34301-54-7

Molecular Formula: C₁₀H₁₆S

Molecular Weight: 168.302

Accurate Mass: 168.09727

Percentage Composition: C 71.37%; H 9.58%; S 19.05%

Melting Point: Mp 100-102°

>>Derivative: S-Me

Synonym(s): 1-(Methylthio)adamantane. 1-Adamantyl methyl sulfide

CAS Registry Number: 34895-33-5

Molecular Formula: C₁₁H₁₈S

Molecular Weight: 182.329

Accurate Mass: 182.11292

Percentage Composition: C 72.46%; H 9.95%; S 17.59%

Physical Description: Liq.

Boiling Point: Bp_{0.55} 68-69°

>>Derivative: S-Et

Synonym(s): 1-(Ethylthio)adamantane. 1-Adamantyl ethyl sulfide

CAS Registry Number: 17233-15-7

Molecular Formula: C₁₂H₂₀S

Molecular Weight: 196.356

Accurate Mass: 196.12857

Percentage Composition: C 73.40%; H 10.27%; S 16.33%

Physical Description: Liq.

Boiling Point: Bp_{0.2} 115-116°

>>Derivative: S-Ph

Synonym(s): 1-(Phenylthio)adamantane. 1-Adamantyl phenyl sulfide

CAS Registry Number: 88459-01-2

Molecular Formula: C₁₆H₂₀S

Molecular Weight: 244.4

Accurate Mass: 244.12857

Percentage Composition: C 78.63%; H 8.25%; S 13.12%

Physical Description: Needles (petrol)

Melting Point: Mp 72-73°

>>Derivative: Disulfide

Synonym(s): Di-1-adamantyl disulfide. Bis(1-adamantyl) disulfide

Molecular Formula: C₂₀H₃₀S₂

Molecular Weight: 334.589

Accurate Mass: 334.17889

Percentage Composition: C 71.80%; H 9.04%; S 19.17%

Physical Description: Cryst. (pentane or by subl.)

Melting Point: Mp 223°

References: