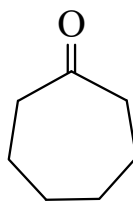




>>Entry Name: Cycloheptanone

Synonym(s): Suberone



CAS Registry Number: 502-42-1

Related CAS Registry Numbers(s): 75032-00-7

Molecular Formula: C₇H₁₂O

Molecular Weight: 112.171

Accurate Mass: 112.088815

Percentage Composition: C 74.95%; H 10.78%; O 14.26%

Use/Importance: Forms Schiff bases with amines useful for glc anal.

Physical Description: Liq.

Boiling Point: Bp 179-180°

Solubility: Prac. insol. H₂O; sol. EtOH

Density: d₄²⁰ 0.951

Refractive Index: n_D²⁰ 1.4608

Hazard & Toxicity: LD₅₀ (mus, ipr) 750 mg/kg

Aldrich: C9900-0

Fluka: 28850

>>Derivative: Semicarbazone

Melting Point: Mp 163-164°

>>Derivative: 2,4-Dinitrophenylhydrazone

Melting Point: Mp 148°

>>Derivative: Ethylene ketal

Synonym(s): 1,4-Dioxaspiro[4.6]undecane

CAS Registry Number: 184-26-9

Molecular Formula: C₉H₁₆O₂

Molecular Weight: 156.224

Accurate Mass: 156.11503

Percentage Composition: C 69.19%; H 10.32%; O 20.48%

Boiling Point: Bp_{1.3} 51°

>>Derivative: Ethylene dithioketal

Synonym(s): 1,4-Dithiaspiro[4.6]undecane

CAS Registry Number: 184-32-7

Molecular Formula: C₉H₁₆S₂

Molecular Weight: 188.357

Accurate Mass: 188.06934

Percentage Composition: C 57.39%; H 8.56%; S 34.05%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 52-54°

>>Derivative: Ethylene dithioketal, S-oxide

Molecular Formula: C₉H₁₆OS₂

Molecular Weight: 204.357

Accurate Mass: 204.064255

Percentage Composition: C 52.90%; H 7.89%; O 7.83%; S 31.38%

Physical Description: Cryst. (hexane)

Melting Point: Mp 59.2°

References: