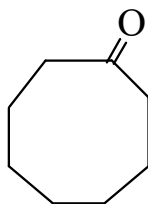




>>Entry Name: Cyclooctanone, 9CI

Synonym(s): Azelaone



CAS Registry Number: 502-49-8

Molecular Formula: C₈H₁₄O

Molecular Weight: 126.198

Accurate Mass: 126.104465

Percentage Composition: C 76.14%; H 11.18%; O 12.68%

Physical Description: Oil or cryst.

Melting Point: Mp 28°

Boiling Point: Bp 195-197°. Bp₂₃ 91°

Refractive Index: n_D²⁰ 1.4694

Hazard & Toxicity: LD₅₀ (mus, ipr) 740 mg/kg

Aldrich: C10980-0

Fluka: 29620

>>Derivative: Oxime

CAS Registry Number: 1074-51-7

Molecular Formula: C₈H₁₅NO

Molecular Weight: 141.213

Accurate Mass: 141.115364

Percentage Composition: C 68.04%; H 10.71%; N 9.92%; O 11.33%

Melting Point: Mp 36-37°

Aldrich: 39392-4

>>Derivative: Semicarbazone

Melting Point: Mp 167-168°

>>Derivative: 2,4-Dinitrophenylhydrazone

CAS Registry Number: 1459-62-7

Physical Description: Orange prisms

Melting Point: Mp 171-172°

>>Derivative: Ethylene acetal

Synonym(s): 1,4-Dioxaspiro[4.7]dodecane, 9CI

CAS Registry Number: 183-03-9

Molecular Formula: C₁₀H₁₈O₂

Molecular Weight: 170.251

Accurate Mass: 170.13068

Percentage Composition: C 70.55%; H 10.66%; O 18.80%

Physical Description: Liq.

Boiling Point: Bp₅ 76-77°

>>Derivative: Ethylene dithioacetal

Synonym(s): 1,4-Dithiaspiro[4.7]dodecane, 9CI

CAS Registry Number: 183-04-0

Molecular Formula: C₁₀H₁₈S₂

Molecular Weight: 202.384

Accurate Mass: 202.08499

Percentage Composition: C 59.35%; H 8.96%; S 31.69%

Boiling Point: Bp_{0.15} 104°

References: