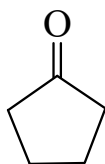




>>Entry Name: Cyclopentanone, 9CI

ENTRY UNDER REVIEW

Synonym(s): Adipic ketone. Dumasine. FEMA 3910



CAS Registry Number: 120-92-3

Molecular Formula: C₅H₈O

Molecular Weight: 84.118

Accurate Mass: 84.057515

Percentage Composition: C 71.39%; H 9.59%; O 19.02%

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

Physical Description: Liq. with pleasant odour

Melting Point: Fp -58°

Boiling Point: Bp 130°

Solubility: Spar. sol. H₂O; sol. EtOH, Et₂O

pKa Value: pK_a 16.7 (25°)

Refractive Index: n_D²⁰ 1.4366

Hazard & Toxicity: Flammable, fl. p. 26/31°. Mixtures with HNO₃ or H₂O₂ may explode. Skin and severe eye irritant

Aldrich: C11240-2

Fluka: 29770

Sigma: C7775

>>Derivative: Oxime

CAS Registry Number: 1192-28-5

Molecular Formula: C₅H₉NO

Molecular Weight: 99.132

Accurate Mass: 99.068414

Percentage Composition: C 60.58%; H 9.15%; N 14.13%; O 16.14%

Physical Description: Prisms

Melting Point: Mp 56.5°

Boiling Point: Bp 196°. Bp₄₅ 120-121°

Hazard & Toxicity: Beckmann rearrangement with H₂SO₄ can be violent

Aldrich: C11243-7

>>Derivative: 2,4-Dinitrophenylhydrazone

CAS Registry Number: 2057-87-6

Melting Point: Mp 145.5-146.5°

>>Derivative: Semicarbazone

CAS Registry Number: 5459-00-7

Melting Point: Mp 224°

>>Derivative: Di-Me acetal

Synonym(s): 1,1-Dimethoxycyclopentane, 9CI

CAS Registry Number: 931-94-2

Molecular Formula: C₇H₁₄O₂

Molecular Weight: 130.186

Accurate Mass: 130.09938

Percentage Composition: C 64.58%; H 10.84%; O 24.58%

Physical Description: Liq.

Boiling Point: Bp₂₀ 50°

Rare Chemicals Library: S3501-8