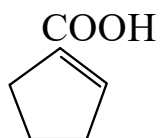




>>Entry Name: 1-Cyclopentene-1-carboxylic acid, 9CI



CAS Registry Number: 1560-11-8

Molecular Formula: C₆H₈O₂

Molecular Weight: 112.128

Accurate Mass: 112.05243

Percentage Composition: C 64.27%; H 7.19%; O 28.54%

Physical Description: Leaflets or needles (H₂O)

Melting Point: Mp 123-124°

Boiling Point: Bp 210°

Solubility: Sol. hot H₂O

Other Data: Steam-volatile, subl.

Aldrich: 32832-4

Rare Chemicals Library: S88280-1

>>Derivative: Et ester

CAS Registry Number: 10267-94-4

Molecular Formula: C₈H₁₂O₂

Molecular Weight: 140.182

Accurate Mass: 140.08373

Percentage Composition: C 68.55%; H 8.63%; O 22.83%

Boiling Point: Bp₂₅ 92°. Bp₁₀ 75°

Rare Chemicals Library: S94287-1

>>Derivative: Anilide

Molecular Formula: C₁₂H₁₃NO

Molecular Weight: 187.241

Accurate Mass: 187.099714

Percentage Composition: C 76.98%; H 7.00%; N 7.48%; O 8.54%

Melting Point: Mp 126°

>>Derivative: Nitrile

Synonym(s): 1-Cyanocyclopentene

CAS Registry Number: 3047-38-9

Molecular Formula: C₆H₇N

Molecular Weight: 93.128

Accurate Mass: 93.057849

Percentage Composition: C 77.38%; H 7.58%; N 15.04%

Boiling Point: Bp₃₀ 81°

References:

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Philp, R.P. *et al.*, *Aust. J. Chem.*, 1977, **30**, 123, (*synth*)

Hoberg, H. *et al.*, *Synthesis*, 1991, 395, (*synth*)

Palaty, J. *et al.*, *J. Med. Chem.*, 1995, **38**, 3398, (*synth*, *pmr*, *ir*)