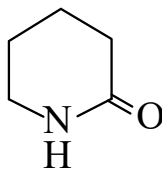




>>Entry Name: 2-Piperidinone, 9CI

Synonym(s): δ -Valerolactam. α -Piperidone. 2-Oxopiperidine. 5-Aminopentanoic acid lactam



CAS Registry Number: 675-20-7

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: Hygroscopic cryst.

Melting Point: Mp 39-40°

Boiling Point: Bp 256°. Bp_{0.4} 64-65°

Solubility: Sol. H₂O, Et₂O, EtOH

Aldrich: V20-9

Fluka: 94570

>>Derivative: Hydrochloride

CAS Registry Number: 5174-67-4

Physical Description: Cryst. (EtOH/Et₂O)

Melting Point: Mp 182-183°

>>Derivative: *N*-Benzoyl

CAS Registry Number: 4252-56-6

Molecular Formula: C₁₂H₁₃NO₂

Molecular Weight: 203.24

Accurate Mass: 203.094629

Percentage Composition: C 70.92%; H 6.45%; N 6.89%; O 15.74%

Physical Description: Cryst. (CHCl₃/petrol)

Melting Point: Mp 112° (104-106°)

>>Derivative: *N*-Me

CAS Registry Number: 931-20-4

Molecular Formula: C₆H₁₁NO

Molecular Weight: 113.159

Accurate Mass: 113.084064

Percentage Composition: C 63.69%; H 9.80%; N 12.38%; O 14.14%

Physical Description: Hygroscopic liq.

Boiling Point: Bp₁₄ 104°

Solubility: Misc. H₂O

Aldrich: M7378-8

Fluka: 68876

>>Derivative: *N*-Me; hydrochloride

CAS Registry Number: 87243-73-0

Physical Description: Cryst. (EtOH/Et₂O)

Melting Point: Mp 104°

>>Derivative: *N*-Et

CAS Registry Number: 4789-07-5

Molecular Formula: C₇H₁₃NO

Molecular Weight: 127.186

Accurate Mass: 127.099714

Percentage Composition: C 66.11%; H 10.30%; N 11.01%; O 12.58%

Boiling Point: Bp₁₂ 109°