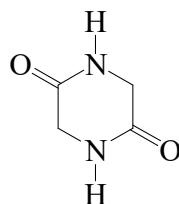




>>Entry Name: **2,5-Piperazinedione**, 9CI

Synonym(s): 2,5-Dioxopiperazine. Glycine anhydride. Cyclo(glycylglycyl)



CAS Registry Number: 106-57-0

Molecular Formula: C₄H₆N₂O₂

Molecular Weight: 114.104

Accurate Mass: 114.042928

Percentage Composition: C 42.11%; H 5.30%; N 24.55%; O 28.04%

Physical Description: Plates (H₂O)

Melting Point: Mp 311-312° (dec.)

Boiling Point: Subl. 260°

Solubility: Spar. sol. H₂O

Other Data: Weak base

Aldrich: G640-6

Fluka: 50080

Sigma: G7251

>>Derivative: Hydrochloride

Physical Description: Cryst.

Melting Point: Mp 129-130°

>>Derivative: *N,N'*-Di-Ac

CAS Registry Number: 3027-05-2

Molecular Formula: C₈H₁₀N₂O₄

Molecular Weight: 198.178

Accurate Mass: 198.064058

Percentage Composition: C 48.49%; H 5.09%; N 14.14%; O 32.29%

Melting Point: Mp 99-100.5°. Mp 151.6°

>>Derivative: *N*-Me

Synonym(s): Cyclo(glycylsarcosyl). 1-Methyl-2,5-piperazinedione. Glycine sarcosine anhydride

CAS Registry Number: 5625-52-5

Molecular Formula: C₅H₈N₂O₂

Molecular Weight: 128.13

Accurate Mass: 128.058578

Percentage Composition: C 46.87%; H 6.29%; N 21.86%; O 24.97%

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 148° (142-143°)

Boiling Point: Subl.₁₀ 100-110°

>>Derivative: *N,N'*-Di-Me

Synonym(s): Cyclo(sarcosylsarcosyl). 1,4-Dimethyl-2,5-piperazinedione. Sarcosine cyclic anhydride. Disarcosyl anhydride. Sarcosine anhydride

CAS Registry Number: 5076-82-4

Molecular Formula: C₆H₁₀N₂O₂

Molecular Weight: 142.157

Accurate Mass: 142.074228

Percentage Composition: C 50.69%; H 7.09%; N 19.71%; O 22.51%

Physical Description: Plates or prisms (EtOH)

Melting Point: Mp 149°

Boiling Point: Bp_{0.35} 120° (sublimes)

Solubility: V. sol. H₂O

Aldrich: 22309-3

Fluka: 84550

Rare Chemicals Library: S57683-2

Sigma: S1375