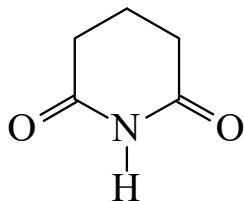




>>Entry Name: Glutarimide

Synonym(s): 2,6-Piperidinedione, 9Cl



CAS Registry Number: 1121-89-7

Molecular Formula: C₅H₇NO₂

Molecular Weight: 113.116

Accurate Mass: 113.047679

Percentage Composition: C 53.09%; H 6.24%; N 12.38%; O 28.29%

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 152-154°

Aldrich: 17809-8

>>Derivative: Monoxime

Synonym(s): 2-Hydroxyimino-6-oxopiperidine

CAS Registry Number: 38105-50-9

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%

Use/Importance: Gives colour reactions with Ag, Au, Co, Cr, Cu, Fe, Mn, Mo, Ni, U, V; used for pptn. of Ag, Au, Bi, Ce, Co, Hg, Pd

>>Derivative: Dioxime

Synonym(s): Glutarimide dioxime

CAS Registry Number: 18271-49-3

Molecular Formula: C₅H₉N₃O₂

Molecular Weight: 143.145

Accurate Mass: 143.069477

Percentage Composition: C 41.95%; H 6.34%; N 29.35%; O 22.35%

Use/Importance: Used for photometric detn. of Ce

>>Derivative: N-Ph

Synonym(s): 1-Phenyl-2,6-piperidinedione, 9Cl. N-Phenylglutarimide. Glutaranil

CAS Registry Number: 5768-13-8

Molecular Formula: C₁₁H₁₁NO₂

Molecular Weight: 189.213

Accurate Mass: 189.078979

Percentage Composition: C 69.83%; H 5.86%; N 7.40%; O 16.91%

Physical Description: Cryst. (Et₂O)

Melting Point: Mp 151-152°

Rare Chemicals Library: S93549-2

References:

- Aldrich Library of ¹³C and ¹H FT NMR Spectra*, 1992, **1**, 1306A, (*nmr*)
Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 798D, (*ir*)
Org. Synth., Coll. Vol., 4, 1963, 496, (*synth*)
Masquestiau, A. *et al.*, *Bull. Soc. Chim. Belg.*, 1969, **78**, 309, (*ms*)
Petersen, C.S., *Acta Chem. Scand.*, 1971, **25**, 379, (*cryst struct*)
Buscarons, F. *et al.*, *Quim. Ind. (Madrid)*, 1971, **17**, 6, (*use*)
Buscarons, F. *et al.*, *Inf. Quim. Anal.*, 1972, **26**, 1
Ul Hasan, M., *Org. Magn. Reson.*, 1980, **14**, 447, (*cmr*)
Crockett, G.C. *et al.*, *Synth. Commun.*, 1981, **11**, 447, (*synth*)
Kinoshita, T. *et al.*, *Synthesis*, 1985, 402, (*synth*)
Kometani, T. *et al.*, *Tet. Lett.*, 1986, **27**, 919, (*N-Ph*)
Aubert, T. *et al.*, *Tetrahedron*, 1991, **47**, 53, (*N-Ph*)