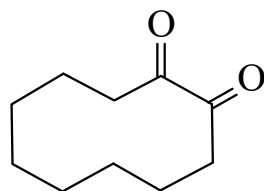




>>Entry Name: 1,2-Cyclodecanedione

Synonym(s): Sebacil†



CAS Registry Number: 96-01-5

Molecular Formula: C₁₀H₁₆O₂

Molecular Weight: 168.235

Accurate Mass: 168.11503

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

Physical Description: Liq.

Melting Point: Mp 42°

Boiling Point: Bp₁₀ 104-105°. Bp₁ 69-70°

Rare Chemicals Library: S41920-6

>>Derivative: Dihydrazone

Molecular Formula: C₁₀H₂₀N₄

Molecular Weight: 196.295

Accurate Mass: 196.168796

Percentage Composition: C 61.19%; H 10.27%; N 28.54%

Melting Point: Mp 126-130 dec.°

>>Derivative: Dioxime

CAS Registry Number: 18486-81-2

Molecular Formula: C₁₀H₁₈N₂O₂

Molecular Weight: 198.264

Accurate Mass: 198.136828

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

Use/Importance: Used as a satd. soln. in H₂O, EtOH or Me₂CO for extraction-photometric detn. of Ni (isopentanol); gravimetric detn. of Bi, Co, Cu, Pd

Physical Description: Cryst. (C₆H₆ or H₂O)

Melting Point: Mp 189-190°. Mp 190°

Solubility: Sol. C₆H₆, Me₂CO; sl. sol. H₂O (0.05 g per 100 cm³)

References:

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Cumper, C.W.N. *et al.*, *J.C.S.*, 1965, 2067, (*synth*)

Bassed, J. *et al.*, *Analyst (London)*, 1967, **92**, 279, (*detn, Bi, Co, Cu, Pd*)

Caubere, P. *et al.*, *J.O.C.*, 1986, **51**, 1419, (*synth*)