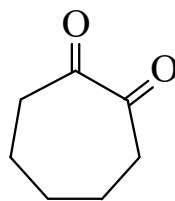




>>Entry Name: 1,2-Cycloheptanedione



CAS Registry Number: 3008-39-7

Molecular Formula: $C_7H_{10}O_2$

Molecular Weight: 126.155

Accurate Mass: 126.06808

Percentage Composition: C 66.65%; H 7.99%; O 25.36%

Physical Description: Liq.

Boiling Point: B_{p17} 107-109°

Density: d_{22}^{22} 1.061

Refractive Index: n_D^{22} 1.4689

>>Derivative: Bis-2,4-dinitrophenylhydrazone

Physical Description: Red needles + C_6H_6 (C_6H_6)

Melting Point: Mp 213° (dried)

>>Derivative: Dioxime

Synonym(s): Heptoxime

CAS Registry Number: 530-97-2

Molecular Formula: $C_7H_{12}N_2O_2$

Molecular Weight: 156.184

Accurate Mass: 156.089878

Percentage Composition: C 53.83%; H 7.74%; N 17.94%; O 20.49%

Use/Importance: Used as a soln. in EtOH for gravimetric detn. of Ni, Bi, Pd

Physical Description: Cryst. (C_6H_6)

Melting Point: Mp 181-182°

pKa Value: pK_{a1} 10.7; pK_{a2} 12.3

References:

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Valasquez, J.A. *et al.*, *Talanta*, 1970, **17**, 623, (*use, deriv*)

Hanna, J.D. *et al.*, *Can. J. Chem.*, 1972, **50**, 2859, (*use, deriv*)

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