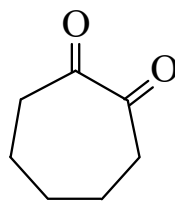




>>Entry Name: 1,2-Cycloheptanedione



CAS Registry Number: 3008-39-7

Molecular Formula: C₇H₁₀O₂

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: d₂₂²² 1.061

Refractive Index: n_D²² 1.4689

>>Derivative: Bis-2,4-dinitrophenylhydrazone

Physical Description: Red needles + C₆H₆ (C₆H₆)

Melting Point: Mp 213° (dried)

>>Derivative: Dioxime

Synonym(s): Heptoxime

CAS Registry Number: 530-97-2

Molecular Formula: C₇H₁₂N₂O₂

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. (C₆H₆)

Melting Point: Mp 181-182°

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

References:

Godchot, M. *et al.*, *C. R. Hebd. Seances Acad. Sci.*, 1936, **202**, 326, (*synth*)

Cook, J.W. *et al.*, *J.C.S.*, 1952, 4416, (*synth*)

Belcher, R. *et al.*, *J.C.S.*, 1958, 2743

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

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

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

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