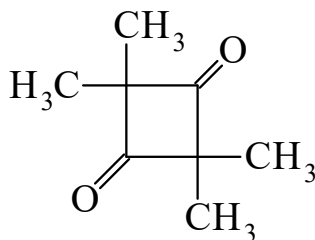




>>Entry Name: 2,2,4,4-Tetramethyl-1,3-cyclobutanedione



CAS Registry Number: 933-52-8

Molecular Formula: C₈H₁₂O₂

Molecular Weight: 140.182

Accurate Mass: 140.08373

Percentage Composition: C 68.55%; H 8.63%; O 22.83%

Melting Point: Mp 115-116°

Boiling Point: Bp 159-161°

Aldrich: T2100-8

Rare Chemicals Library: S43018-8

>>Derivative: Di-Me ketal

Synonym(s): 3,3-Dimethoxy-2,2,4,4-tetramethylcyclobutanone, 9CI

CAS Registry Number: 133729-64-3

Molecular Formula: C₁₀H₁₈O₃

Molecular Weight: 186.25

Accurate Mass: 186.125595

Percentage Composition: C 64.49%; H 9.74%; O 25.77%

Physical Description: Cryst. with camphoraceous odour

Melting Point: Mp 41-42°

Boiling Point: Bp₁₄ 83°

>>Derivative: Di-Me ketal, hydrazone

CAS Registry Number: 133729-66-5

Physical Description: Pale yellow oil

Other Data: Unstable

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **1**, 701A, (nmr)

Aldrich Library of Infrared Spectra, 3rd edn., 1981, 266F, (ir)

Erickson, J.L.E. *et al.*, *J.A.C.S.*, 1946, **68**, 492, (synth, props)

Guziec, F.S. *et al.*, *J.O.C.*, 1991, **56**, 3178, (deriv, synth, ir, pmr)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, TDO250