



CAS Registry Number: 69225-59-8

Molecular Formula: C₁₁H₁₈O₃

Molecular Weight: 198.261

Accurate Mass: 198.125595

Percentage Composition: C 66.64%; H 9.15%; O 24.21%

Use/Importance: Useful synthetic intermediate

Physical Description: Cryst. (hexane)

Melting Point: Mp 48-49.5°

>>**Derivative:** Bis(ethylene ketal)

Synonym(s): 1,4,9,12-Tetraoxadispiro[4.2.4.2]tetradecane

CAS Registry Number: 183-97-1

Molecular Formula: C₁₀H₁₆O₄

Molecular Weight: 200.234

Accurate Mass: 200.10486

Percentage Composition: C 59.98%; H 8.05%; O 31.96%

Melting Point: Mp 79-80°

Boiling Point: Bp_{0.5} 75-85°

Aldrich: 29874-3

Rare Chemicals Library: S74161-2

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **1**, 722C, (nmr)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 450C, (ir)

Aldrich Library of FT-IR Spectra: Vapor Phase, 1989, **3**, 330B, (ir)

Meerwein, H., *Annalen*, 1913, **398**, 248, (synth)

Liebermann, H., *Annalen*, 1914, **404**, 272, (synth)

Org. Synth., 1965, **45**, 25, (synth)

Fieser and Fieser's Reagents for Organic Synthesis, Wiley, 1969, **2**, 93

Dowd, P. *et al.*, *J.A.C.S.*, 1970, **92**, 6327, (conformn)

Olah, G.A. *et al.*, *J.O.C.*, 1975, **40**, 2102, (cmr)

Mussini, P. *et al.*, *Synth. Commun.*, 1975, **5**, 283, (synth)

Marshall, J. *et al.*, *Synth. Commun.*, 1979, **9**, 123, (deriv)

Roman Ceba, M. *et al.*, *Microchem. J.*, 1982, **27**, 380, (synth, detn, Cu)

Kamenka, J.-M. *et al.*, *Bull. Soc. Chim. Fr.*, Part II, 1983, 87, (acetal)

Hyatt, J.A. *et al.*, *J.O.C.*, 1983, **48**, 129, (deriv)