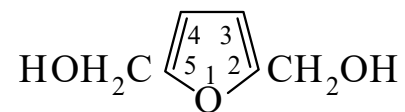




>>Entry Name: **2,5-Furandimethanol**, 9CI, 8CI

Synonym(s): 2,5-Bis(hydroxymethyl)furan. 5-(Hydroxymethyl)furfuryl alcohol



CAS Registry Number: 1883-75-6

Molecular Formula: C₆H₈O₃

Molecular Weight: 128.127

Accurate Mass: 128.047345

Percentage Composition: C 56.25%; H 6.29%; O 37.46%

Biological Source: Metab. of *Phellinus lintens*

Physical Description: Plates (EtOAc)

Melting Point: Mp 76°

UV: [neutral] λ_{max} 224 (ε 6100) (MeOH) (Berdy)

Aldrich: 19461-1

>>Derivative: Di-Ac

CAS Registry Number: 5076-10-8

Molecular Formula: C₁₀H₁₂O₅

Molecular Weight: 212.202

Accurate Mass: 212.068475

Percentage Composition: C 56.60%; H 5.70%; O 37.70%

Physical Description: Needles (petrol)

Melting Point: Mp 64°

Rare Chemicals Library: S9649-1

>>Derivative: Dibenzoyl

CAS Registry Number: 94465-43-7

Molecular Formula: C₂₀H₁₆O₅

Molecular Weight: 336.343

Accurate Mass: 336.099775

Percentage Composition: C 71.42%; H 4.79%; O 23.78%

Physical Description: Prisms (MeOH)

Melting Point: Mp 76-77°

>>Derivative: Mono-Me ether

Synonym(s): 5-(Methoxymethyl)-2-furanmethanol. 5-(Methoxymethyl)furfuryl alcohol

CAS Registry Number: 934-93-0

Molecular Formula: C₇H₁₀O₃

Molecular Weight: 142.154

Accurate Mass: 142.062995

Percentage Composition: C 59.14%; H 7.09%; O 33.76%

Biological Source: Metab. of *Phellinus lintens*

Physical Description: Mobile liq.

Melting Point: Mp 90° (3,5-dinitrobenzoyl)

Boiling Point: Bp₁ 94-96°. Bp_{0.3} 47°

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **3**, 19A, (*nmr*)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **2**, 582B, (*ir*)

Shafizadeh, F. *et al.*, *J.C.S.*, 1952, 3608, (*deriv*)

Finan, P.A., *J.C.S.*, 1963, 3917, (*synth*)

Gagnaire, D. *et al.*, *Bull. Soc. Chim. Fr.*, 1965, 474, (*synth*)

Timko, J.M. *et al.*, *J.A.C.S.*, 1977, **99**, 4207, (*synth*)

Katritzky, A.R. *et al.*, *Magn. Reson. Chem.*, 1988, **26**, 129, (*cmr*)

Song, K.-S. *et al.*, *CA*, 1994, **121**, 296712m, (*isol*)

Glidewell, C. *et al.*, *Acta Cryst. C*, 1996, **52**, 1305, (*cryst struct*)