



>>Entry Name: 1,12-Dodecanediol

Synonym(s): Dodecamethylenediol

CAS Registry Number: 5675-51-4

Type of Compound Code(s): VA0100

HOCH₂(CH₂)₁₀CH₂OH

Molecular Formula: C₁₂H₂₆O₂

Molecular Weight: 202.336

Accurate Mass: 202.19328

Percentage Composition: C 71.23%; H 12.95%; O 15.81%

Biological Source: Constit. of the leaf wax of *Chamaecyparis obtusa* and of *Pinus thunbergii*

Physical Description: Cryst. (EtOH aq. or C₆H₆)

Melting Point: Mp 80-81°

Boiling Point: Bp₁₂ 189°

Aldrich: D22130-9

Fluka: 44040

>>Derivative: Di-Ac

Molecular Formula: C₁₆H₃₀O₄

Molecular Weight: 286.411

Accurate Mass: 286.21441

Percentage Composition: C 67.10%; H 10.56%; O 22.34%

Melting Point: Mp 36.5-37.5°

>>Derivative: Di-Me ether

Synonym(s): 1,2-Dimethoxydodecane

CAS Registry Number: 73120-52-2

Molecular Formula: C₁₄H₃₀O₂

Molecular Weight: 230.39

Accurate Mass: 230.22458

Percentage Composition: C 72.99%; H 13.12%; O 13.89%

Melting Point: Mp 11.5°

Boiling Point: Bp₁₅ 155-156°

>>Derivative: Di-Ph ether

Synonym(s): 1,1'-[1,12-Dodecanediylbis(oxy)]bisbenzene, 9CI. 1,12-Diphenoxydodecane

CAS Registry Number: 61575-03-9

Type of Compound Code(s): VA0100

Molecular Formula: C₂₄H₃₄O₂

Molecular Weight: 354.531

Accurate Mass: 354.25588

Percentage Composition: C 81.31%; H 9.67%; O 9.03%

Biological Source: Isol. from the leaves of *Arachis hypogaea* infected with *Puccinia arachidis*

Use/Importance: Phytoalexin

References:

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Chuit, P., *Helv. Chim. Acta*, 1926, **9**, 264, (*synth*)
Guyer, A. *et al.*, *Helv. Chim. Acta*, 1955, **38**, 976-982, (*synth*)
Colonge, J. *et al.*, *Bull. Soc. Chim. Fr.*, 1959, 1248, (*synth*)
White, R.W. *et al.*, *Tet. Lett.*, 1971, 3587, (*synth*)
Rosen, M.J. *et al.*, *J. Am. Oil Chem. Soc.*, 1976, **53**, 742, (*di-Ph ether*)
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Nakamura, N. *et al.*, *Acta Cryst. C*, 1997, **53**, 1883-1885, (*cryst struct*)