



>>Entry Name: 1,2,4,5-Benzenetetrol, 9CI

Synonym(s): 1,2,4,5-Tetrahydroxybenzene

CAS Registry Number: 636-32-8

Related CAS Registry Numbers(s): 175228-99-6

Molecular Formula: C₆H₆O₄

Molecular Weight: 142.111

Accurate Mass: 142.02661

Percentage Composition: C 50.71%; H 4.26%; O 45.03%

>>Derivative: Tetra-Ac

Molecular Formula: C₁₄H₁₄O₈

Molecular Weight: 310.26

Accurate Mass: 310.06887

Percentage Composition: C 54.20%; H 4.55%; O 41.25%

Physical Description: Leaflets (AcOH)

Melting Point: Mp 226-227°

>>Derivative: 1,2-Di-Me, 4,5-methylene ether

Synonym(s): 1,2-Dimethoxy-4,5-(methylenedioxy)benzene, 8CI

CAS Registry Number: 3214-12-8

Molecular Formula: C₉H₁₀O₄

Molecular Weight: 182.176

Accurate Mass: 182.05791

Percentage Composition: C 59.34%; H 5.53%; O 35.13%

Physical Description: Cryst. (cyclohexane)

Melting Point: Mp 111°

>>Derivative: 2,4,5-Tri-Me ether

Synonym(s): 2,4,5-Trimethoxyphenol

CAS Registry Number: 20491-91-2

Molecular Formula: C₉H₁₂O₄

Molecular Weight: 184.191

Accurate Mass: 184.07356

Percentage Composition: C 58.69%; H 6.57%; O 34.75%

Melting Point: Mp 59°

>>Derivative: Tetra-Me ether

Synonym(s): 1,2,4,5-Tetramethoxybenzene

CAS Registry Number: 2441-46-5

Molecular Formula: C₁₀H₁₄O₄

Molecular Weight: 198.218

Accurate Mass: 198.08921

Percentage Composition: C 60.59%; H 7.12%; O 32.29%

Physical Description: Needles (H₂O)

Melting Point: Mp 103°

References:

Jackson, C.L. *et al.*, *J.A.C.S.*, 1914, **36**, 1210-1218, (*synth*)

Erdtman, H.G.H., *CA*, 1934, **28**, 1337, (*tetra-Me ether*)

Dallacker, F. *et al.*, *Annalen*, 1969, **719**, 112-118, (*1,2-di-Me 4,5-methylene ether*)

Keegstra, E.M.D. *et al.*, *J.C.S. Perkin 2*, 1996, 229, (*tetraalkyl ethers, synth, ir, uv, pmr, cmr, cryst struct*)

Poigny, S. *et al.*, *Tetrahedron*, 1998, **54**, 14791-14802, (*2,4,5-tri-Me ether, synth, ir, pmr, cmr*)