



>>Entry Name: Phenoxyacetaldehyde, 9CI

Synonym(s): Glycollaldehyde phenyl ether

CAS Registry Number: 2120-70-9

PhOCH₂CHO

Molecular Formula: C₈H₈O₂

Molecular Weight: 136.15

Accurate Mass: 136.05243

Percentage Composition: C 70.58%; H 5.92%; O 23.50%

Physical Description: Cryst. + 1H₂O

Melting Point: Mp 38°

Boiling Point: Bp 215° dec.. Bp₁₅ 101-103°

Other Data: Unstable

Hazard & Toxicity: Skin irritant

>>Derivative: Di-Me acetal

Synonym(s): (2,2-Dimethoxyethoxy)benzene, 9CI. 1,1-Dimethoxy-2-phenoxyethane

CAS Registry Number: 67874-68-4

Molecular Formula: C₁₀H₁₄O₃

Molecular Weight: 182.219

Accurate Mass: 182.094295

Percentage Composition: C 65.92%; H 7.74%; O 26.34%

Boiling Point: Bp_{0.6} 78°

Density: d 1.08

Refractive Index: n_D²⁰ 1.4980

>>Derivative: Di-Et acetal

Synonym(s): (2,2-Diethoxyethoxy)benzene. 1,1-Diethoxy-2-phenoxyethane

CAS Registry Number: 32438-31-6

Molecular Formula: C₁₂H₁₈O₃

Molecular Weight: 210.272

Accurate Mass: 210.125595

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

Boiling Point: Bp 257°. Bp₁₆ 136-138°

>>Derivative: Oxime

Molecular Formula: C₈H₉NO₂

Molecular Weight: 151.165

Accurate Mass: 151.063329

Percentage Composition: C 63.57%; H 6.00%; N 9.27%; O 21.17%

Melting Point: Mp 95°

>>Derivative: Phenylhydrazone

Melting Point: Mp 86°

>>Derivative: Semicarbazone

CAS Registry Number: 16742-18-0

Melting Point: Mp 145°

References:

Hatch, L.F. *et al.*, *J.A.C.S.*, 1945, **67**, 39, (*synth*)

Yamashita, M. *et al.*, *CA*, 1947, **41**, 3753, (*synth*)

Baganz, H. *et al.*, *Chem. Ber.*, 1956, **89**, 1560, (*synth*)

Opdyke, D.L.J., *Food Cosmet. Toxicol.*, 1976, **14**, 823, (*rev, tox*)

Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, PDR000