>>**Entry Name: Phenoxyacetaldehyde,** 9CI
Synonym(s): Glycollaldehyde phenyl ether

CAS Registry Number: 2120-70-9
$PhOCH_2CHO$

Molecular Formula: $C_8H_8O_2$
Molecular Weight: 136.15
Accurate Mass: 136.05243
Percentage Composition: C 70.58%; H 5.92%; O 23.50%
Physical Description: Cryst. + $1H_2O$
Melting Point: Mp 38°
Boiling Point: Bp 215° dec.. Bp_{15} 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: $C_{10}H_{14}O_3$
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_D^{20} 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: $C_{12}H_{18}O_3$
Molecular Weight: 210.272
Accurate Mass: 210.125595
Percentage Composition: C 68.55%; H 8.63%; O 22.83%
Boiling Point: Bp 257°. Bp_{16} 136-138°

>>**Derivative:** Oxime

Molecular Formula: $C_8H_9NO_2$
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:

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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)*
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