



>>Entry Name: Diphenyl ether

ENTRY UNDER REVIEW

Synonym(s): 1,1'-Oxybisbenzene, 9CI. Phenyl ether, 8CI. Phenoxybenzene. Diphenyl oxide. FEMA 3667

CAS Registry Number: 101-84-8

Related CAS Registry Numbers(s): 8004-13-5

Type of Compound Code(s): WE2000 VG0005 WI3500

PhOPh

Molecular Formula: C₁₂H₁₀O

Molecular Weight: 170.21

Accurate Mass: 170.073165

Percentage Composition: C 84.68%; H 5.92%; O 9.40%

Biological Source: Present in muscat grapes

Use/Importance: Heat-transfer medium; used for perfuming soaps. Flavouring ingredient

Physical Description: Low-melting cryst. with a geranium-type odour

Melting Point: Mp 37-39° (28°)

Boiling Point: Bp 259°

Hazard & Toxicity: Fl. p. 96/112°, autoignition temp. 610/618°. Eye and mild skin irritant. LD₅₀ (rat, orl) 3370 mg/kg. Prolonged or repeated exposure causes liver, spleen, kidney and thyroid injury in chronic studies. OES: long-term 1 ppm (vapour)

Aldrich: 24083-4

Fluka: 42730

Supelco: 44-2756

References:

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