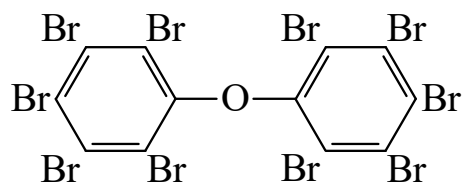




>>Entry Name: Decabromodiphenyl ether

Synonym(s): 1,1'-Oxybis[2,3,4,5,6-pentabromobenzene], 9CI. Perbromodiphenyl ether. Bis(pentabromophenyl) ether. Decabrom



CAS Registry Number: 1163-19-5

Molecular Formula: C<sub>12</sub>Br<sub>10</sub>O

Molecular Weight: 959.171

Accurate Mass: 949.378275

Percentage Composition: C 15.03%; Br 83.31%; O 1.67%

Source/Synthesis: Synth. by bromination of diphenyl ether

Use/Importance: Fireproofing agent for polymers

Physical Description: Pale yellow prisms (toluene)

Melting Point: Mp 305° (296°)

Solubility: Insol. H<sub>2</sub>O

Aldrich: 19442-5

Fluka: 30452

References:

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Bonneaud, M.A. *et al.*, *Bull. Soc. Chim. Fr.*, 1910, **7**, 779, (synth)

Denivelle, L. *et al.*, *Bull. Soc. Chim. Fr.*, 1960, 1538, (synth)

Hileman, F. *et al.*, *Chemosphere*, 1987, **18**, 1039; *CA*, **112**, 76285y

*U.S. Pat.*, 1988, 4 778 933; *CA*, **110**, 57302u, (synth, use)

*Dangerous Prop. Ind. Mater. Rep.*, 1991, **11**, 505, (hazards)

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Lewis, R.J., *Sax's Dangerous Properties of Industrial Materials*, 8th edn., Van Nostrand Reinhold, 1992, PAU500