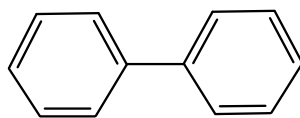




>>Entry Name: Biphenyl, 8CI, BSI, ISO

ENTRY UNDER REVIEW

Synonym(s): 1,1'-Biphenyl, 9CI. Phenylbenzene. Diphenyl. Bibenzene. E 230. FEMA 3129



CAS Registry Number: 92-52-4

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

Molecular Formula: C<sub>12</sub>H<sub>10</sub>

Molecular Weight: 154.211

Accurate Mass: 154.07825

Percentage Composition: C 93.46%; H 6.54%

Use/Importance: Fungistat, esp. for citrus fruits. Used as food preservative

Physical Description: Monoclinic cryst. with faint pleasant odour

Melting Point: Mp 71°

Boiling Point: Bp 254-255°. Bp<sub>22</sub> 145°. Bp<sub>0.2</sub> 70-78°

Other Data: Planar in the cryst. state at -233°, dihedral angle 10° in cryst. state >-233°, 25° in molten state, 32° in soln., 42° in gas phase

**Hazard & Toxicity:** Fl. p. 113°, autoignition temp. 540°. Eye and mucous membrane irritant. Prolonged or repeated skin contact may cause sensitisation and dermatitis.

Occup. exposure causes changes to central and peripheral nervous systems, and gastrointestinal disturbances. LD<sub>50</sub> (rat, orl) 3280 mg/kg. OES: long-term 0.2 ppm; short-term 0.6 ppm

Aldrich: W31290-8

Fluka: 14410

Rare Chemicals Library: S40558-2

Sigma: B6890

Supelco: 44-2487

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