

DIPHENYL

Prepared at the 8th JECFA (1964), published in NMRS 38A (1965) and in FNP 52 (1992)

Metals and arsenic specifications revised at the 63rd JECFA (2004). An ADI of 0-0.5 mg/kg bw was established at the 8th JECFA (1964)

SYNONYMS

INS No. 230

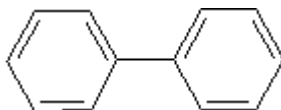
DEFINITION

Chemical names 1,1'-Biphenyl, phenylbenzene

C.A.S. number 92-52-4

Chemical formula $C_{12}H_{10}$

Structural formula



Formula weight 154.20

DESCRIPTION

White or pale yellow to amber, crystalline solid or leaflets having a characteristic odour

FUNCTIONAL USES Fungistatic agent in wrapping material to inhibit growth of moulds or citrus fruits

CHARACTERISTICS

IDENTIFICATION

Solubility (Vol. 4) Insoluble in water, soluble in ether and in ethanol

Melting point (Vol. 4) About 69°

Boiling point (Vol. 4) About 254°

PURITY

Distillation range (Vol. 4) Distils completely within a 2.5° range between 252.5° and 257.5°

Solidification point (Vol. 4) Not below 68.5°

Lead (Volume 4) Not more than 2 mg/kg
Determine using an atomic absorption technique appropriate to the specified level. The selection of sample size and method of sample preparation may be based on the principles of the method described in Volume 4, "Instrumental Methods."