BISPHENOL-A

PRODUCT IDENTIFICATION

CAS NO. 80-05-7 EINECS NO. 201-245-8

FORMULA (CH₃)₂C(C₆H₄OH)₂

MOL WT. 228.29
H.S. CODE 2907.23

TOXICITY Oral rat LD50: 3250 mg/kg

SYNONYMS 4,4'-Dihydroxy-2,2-diphenylpropane; BPA;

Bis(p-hydroxyphenyl)propane; Bisferol A; Isopropylidenebis(4-hydroxybenzene); 4,4'-Isopropylidene Diphenol; p,p'-Isopropylidenebisphenol; Diphenylolpropane; 1-methylethylidene)bis-Phenol; 2,2-Bis(hydroxy phenyl)propane; p,p'-Bisphenol A; Bis(4-hydroxyphenyl) dimethylmethane; Bis(4-hydroxyphenyl) propane; p,p'-Dihydroxydiphenyldimethylmethane; 4,4'-Isopropylidendiphenol (German); 4,4'-Isopropilidendifenol (Spanish); 4,4'-Isopropylidenedip (French); 4,4'-Dihydroxydiphenylpropane; diphenyldimethylmethane; p,p'-Dihydroxydiphenylpropane; 2,2-(4,4'-Dihydroxydiphenyl)propane; beta-di-p-hydroxyphenylpropane; 2,2-Di(4-hydroxyphenyl)propane; Dimethyl bis(p-hydroxyphenyl)methane; Dimethylmethylene-p,p'-diphenol; 2,2-Di(4-phenylol)propane; Di-2,2-(4-Hydroxyphenyl) propane; beta,beta'- Bis(p-hydroxyphenyl)propane;

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DERIVATION CLASSIFICATION

GENERAL DESCRIPTION

BISPHENOL-A (BPA) is produced through an acid-catalyzed condensation reaction of phenol with acetone. BISPHENOL-A's (BPA) growth prospects remain bright, based on the high growth expected for CDs during the next few years and the emergence of new markets, such as polycarbonates for auto-glazing, that could develop after the turn of the century. Epoxies are projected to grow at a more modest 3 to 4 percent annual rate, based on continued wide acceptance in adhesives, powder coatings, and electrical and electronic applications. Bis-A used in flame retardants is forecast to grow 4 to 5 percent annually through the early years of the new century. In the environmental area, recent industry-sponsored research has found no evidence of biological effects from low-dose exposures to BPA.

PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE Clean prills, phenollike mild odor

MELTING POINT 156 - 159 C

BOILING POINT

SPECIFIC GRAVITY
SOLUBILITY IN WATER
Insoluble

На

VAPOR DENSITY

AUTOIGNITION 600 C

NFPA RATINGS

REFRACTIVE INDEX

FLASH POINT 207 C

STABILITY Stable under ordinary conditions

APPLICATIONS

Polycarbonate resins, epoxy resins, flame retardants (mainly tetrabromobisphenol-A), unsaturated polyester, polysulfone, polyetherimide and polyarylate resins.

SALES SPECIFICATION

APPEARANCE	Clean,free-flowing,dust-free prills
PURITY	99.85% min
MELTING POINT	156.5 C min
WATER	0.1% max
PHENOL	100 max (mg/kg)
ISOMERS	1000 max (mg/kg)
BTX	400 max (mg/kg)
IRON	1 max (mg/kg)
MOLTEN COLOR	20max (Pt/Co Scale)
ASH	5 max (mg/kg)
TRANSPORTATION	
PACKING	
HAZARD CLASS	3
UN NO.	2924
OTHER INFORMATION	
Hazard Symbols: XI, Risk Phrases: 36/37/38-43, Safety Phrases: 24-26-37	