

BISPHENOL-A PRODUCT INFORMATION

General

BISPHENOL-A(BPA) is a bifunctional phenolic compound produced by the condensation of acetone and phenol. The polycarbonate grade is essentially 2,2-bis(4-hydroxyphenyl) propane with only trace amount of other isomers. Polycarbonate grade BISPHENOL-A is white solid pill of high purity used as a major ingredient of polymers such as polycarbonates and epoxy resins.

IUPAC name: 4,4-dihydroxy-2,2-diphenylpropane

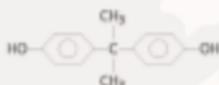
Synonym: BP, 4,4-(propan-2-ylidene)diphenol,
4,4-diacetylphenol

Molecular formula: C₁₄H₁₂O₂

CRS number: 88-05-7

UN/EDG/Cs number: 201-245-8

Package: 25kg / 500kg / 750kg / 800kg / 1000kg bag, bulk



Sales Specification

Appearance	White pills
Purity, wt.-%	98.90 Min.
Color, PtCo	1.08 Max. ^{**}
Melting point, °C	156.5 Min.
Water content, wt.-%	0.1 Max.
Phenol content, mg/kg	2.0 Max.
Orthonol content, mg/kg	300 Max.
Toluene content, mg/kg	8.1 Max. ^{**}

^{*} Solution of 50g BISPHENOL-A in T2 v/v methanol

^{**} Polycarbonate grade

Uses

BISPHENOL-A is used in the synthesis of polyesters, polycarbonates and polyether ketones, as an antioxidant in some plasticizers, and as a polymerization inhibitor in PVC. It is a key monomer in production of polycarbonate plastic and epoxy resins.

Handling And Storage

Precautions for safe handling

- Avoid contact with incompatible materials.
- Handle only at a well-ventilated place.
- Do not handle until all safety precautions have been read and understood.
- Operators should wear antistatic footwear and clothing.
- Contaminated work clothing should not be allowed out of the workplace.

Conditions for safe storage

- Store in a cool, dry and well ventilated place.
- Follow applicable laws and regulations.
- Keep away from open fire, heat sources with combustible materials.
- Avoid direct sunlight.
- Prevent static electricity.
- Carry in sealed containers.

Hazards Information

Hazard classification information

- Reproductive toxicity	Category 2
- Specific target organ toxicity (Single exposure)	Category 3 (Respiratory tract irritation)
- Serious eye damage/irritation	Category 1
- Skin sensitization	Category 1

= NFPA : Health 2, Flammability 1, Reactivity 0

Human health hazards

- Irritating to eyes

Environmental hazards

- Toxic to fish, aquatic invertebrates and algae
- Harmful to bacteria
- Moderate potential for bioaccumulation

Typical Properties

Molecular Weight	228.29	Melting point, °C	138~157
Appearance	White pills	Flash point, °C	207
Odor	Mild phenol smell	Autoignition temperature, °C	800
Boiling point, °C	360		