

PRODUCT INFORMATION

DIPHENYLOL PROPANE BISPHENOL-A

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KUMHO P&B CHEMICALS

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KUMHO P&B CHEMICALS

- Seoul Office 8F, East wing, Signature Towers,
#100, Cheonggyecheon-ro, Jung-gu, Seoul, 04542, Korea
Overseas Marketing Team
·BPA Tel : 82-2-6961-3458 E-mail : bpa_export@kpb.co.kr
·Epoxy Tel : 82-2-6961-6864 E-mail : epoxy_export@kpb.co.kr
·Others Tel : 82-2-6961-6881 E-mail : export@kpb.co.kr
- Yeosu Plant(I) #218, Yeosusandan 2-ro, Yeosu-si, Jeollanam-do, 59611, Korea
Tel : 82-61-688-3500 Fax : 82-61-688-3505
- Yeosu Plant(II) #46-53, Yeosusandan 2-ro, Yeosu-si, Jeollanam-do, 59611, Korea
Tel : 82-61-688-3700 Fax : 82-61-688-3705

BISPHENOL-A PRODUCT INFORMATION



General

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

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

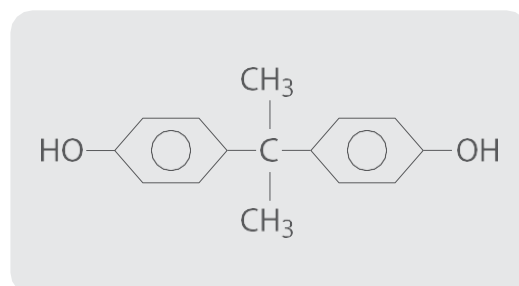
Synonyms : BPA, 4,4-(propan-2-ylidene)diphenol, 4,4-isopropylidenediphenol

Molecular formula : C₁₅H₁₆O₂

CAS number : 80-05-7

EINECS/ELINCS number : 201-245-8

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



Sales Specification

Appearance	White Prills
Purity, wt. %	99.90 Min.
Color*, Pt/Co	10 Max. **
Freezing point, °C	156.5 Min.
Water content, wt. %	0.1 Max.
Phenol content, mg/kg	50 Max.
Ortho/para isomer, mg/kg	500 Max.
Iron content, mg/kg	0.1 Max. **

* Solution of 50g BISPHENOL-A in 70 ml methanol

** Polycarbonate grade



Uses

BISPHENOL-A is used in the synthesis of polyesters, polysulfones 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.



Typical Properties

Molecular Weight	228.29	Melting point, °C	156 ~ 157
Appearance	White prills	Flash point, °C	207
Odor	Mild phenol smell	Autoignition temperature, °C	600
Boiling point, °C	360		



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

Hazards 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



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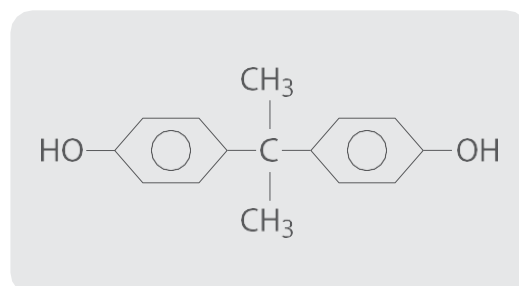
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- Carry in sealed containers.



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Hazards 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
 - Chronic aquatic toxicity : Category 2
- ※ 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

