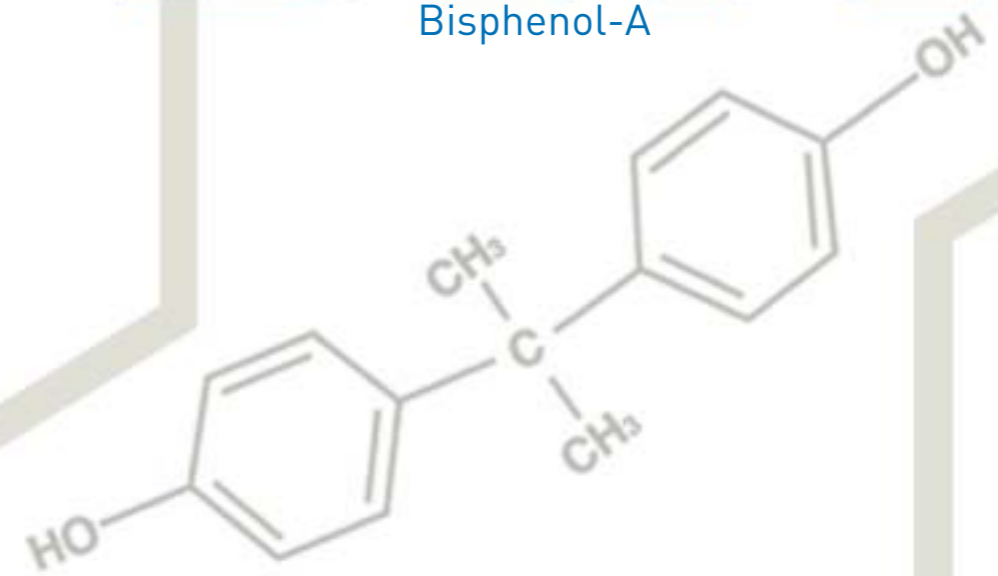
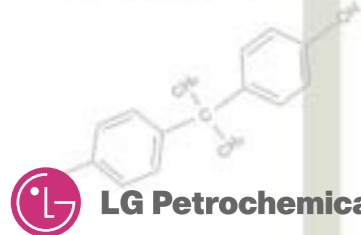


BPA

Bisphenol-A



BPA



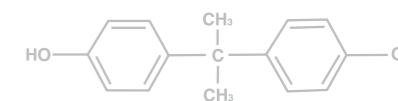
 **LG Petrochemical Co., Ltd.**

Head Office LG Twin Tower
20, Youido-dong, Youngdungpo-gu,
Seoul, 150-721, Korea
TEL. 82-2-3773-3901
FAX. 82-2-780-2042

Factory 754, Jungheung-dong, Yeosu City,
Jeollanam-do
TEL. 82-61-689-3114
FAX. 82-61-691-6495

www.lgpetro.com

Bisphenol-A BPA Contents



Overview

Bisphenol-A(BPA) is used primarily to make polycarbonate and epoxy resins, both of which are used in a wide variety of application. Common examples of polycarbonate products include electronic and electrical components vehicles, CD/DVD and food and drink containers. In addition, epoxy resins are most commonly used as protective coatings, and adhesives. BPA is produced through a catalyzed condensation reaction of phenol with acetone. (Please refer to the Material Safety Data Sheet when handling)

Common Name	Chemical Name	Empirical Name
BPA	2,2-bis(p-hydroxyphenyl)propane	$(\text{CH}_3)_2\text{C}(\text{C}_6\text{H}_4\text{OH})_2$

Specification

Molten color, APHA No.	20 max.	Water, wt ppm	1,000 max.
Appearance	white prills	Iron, wt ppm	0.1 max.
Purity, wt %	99.85 min.	Freezing point, °C	156.5 min.
Phenol, wt ppm	100 max	Solution Color, APHA No.	10 max.
o,p-Isomer, wt ppm	500 max		

Typical Property

Molecular Weight	228.3	Heat of fusion, cal/g	30.6
Appearance	white prills	Specific heat, cal/g/°C	
Boiling point, °C	360.5	@ 165 °C	0.56
Melting point, °C	157	@ 157 °C (Liquid)	0.61
Flash point, °C COC	207	@ 157 °C (Solid)	0.45
CC	227	@ 60 °C	0.36
Min. ignition point, °C	532	Bulk density, kg/m ³	630~680
Explosion limit, g/l	0.019	Solubility, g/100g solvent @ 25 °C	
Min. ignition energy, mmjules	1.8	Acetone	85
Severity of explosion constant, bar-m/sec	297	Epichlorohydrin	38
Specific gravity, 25/25 °C	1.2	Ethane	150
Density, kg/ m ³ @ 165 °C	1.054	Methanol	210
Volume resistivity, ohms/cm ²	5.1 * 10 ¹⁵	Water	< 0.1

Packing Unit

PAPER BAG	25KG	TRUCK
FLECON BAG	500KG, 700KG, 1MT	SEA BULK CONTAINER

Preparation for usage

Ventilation System	Chemical-resistant protective clothes
Safety goggles	Safety gloves

Noxiousness

- ※ Can irritate eyes allergic reaction.
- ※ Potential impact on health
 - Inhalation
 - Short-term exposure : irritation
 - Long-term exposure : no critical aftereffect is known
 - Skin contact
 - Short-term exposure : irritation, allergic reaction, sensitive to light
 - Long-term exposure : irritation, allergic reaction, skin injury
 - Eye contact
 - Long-term exposure : irritation
 - Intake
 - Short-term exposure : diarrhea, dyspnea, headache, drowsiness, vertigo, loss of regulation
 - Long-term exposure : no critical aftereffect is known

First Aid Tips

- Intake
 - Move the affected person to a non-contaminated area.
 - Apply artificial respiration if the affected person does not breathe.
 - Receive immediate medical treatment.
- Skin contact
 - Wash with soap for at least 15 minutes while removing the affected clothes and shoes.
 - Consult a physician, if required.
 - Wash and dry the contaminated clothes and shoes thoroughly before using them again.
- Eye contact
 - Wash eyes with fresh water for at least 15 minutes.
 - Receive immediate medical treatment.