

BISPHENOL A



CAS Number: 80-05-7

Other Names: 2,2-Bis(4-hydroxyphenyl)propane,
4,4'-Isopropylidenediphenol, Diphenylolpropane,
4,4'-Bisphenol A, 4,4'-(propane-2,2-diyl)diphenol

Formula: $C_{15}H_{16}O_2$ or $(CH_3)_2C(C_6H_4OH)_2$

PRODUCT INTRODUCTION

Bisphenol A (BPA) is an organic synthetic compound with the chemical formula $(CH_3)_2C(C_6H_4OH)_2$ belonging to the group of diphenylmethane derivatives and bisphenols, with two hydroxyphenyl groups. It is a colorless solid that is soluble in organic solvents, but poorly soluble in water. It is a difunctional building block of several important plastics and plastic additives. With an annual production of 2–3 million metric tones, it is an important monomer in the production of polycarbonate.

PHYSICAL AND CHEMICAL PROPERTIES

Grade	BPA
Purity (dry basis) (wt%)	99.94
Phenol (wt-ppm)	6
Water (wt%)	0.047
Freezing Point (°C)	156.6
Methanol Color (APHA)	1.9
Iron (wt-ppm)	0.01
Ash (wt-ppm)	< 5

APPLICATIONS

- The largest use for bisphenol A is polycarbonate followed by epoxy resins. Other uses are flame retardants, unsaturated polyester resins and polyacrylate, polyetherimide, and polysulfone resins.
- Adhesives and sealant chemicals
- Intermediates
- Laboratory chemicals
- Paint additives and coating additives not described by other categories
- Process regulators
- Propellants and blowing agents

PACKAGING OPTIONS

Drums

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