

**4-TERT-BUTYL CATECHOL
(TBC)
MOLTEN SOLID**

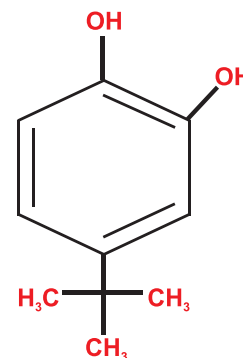
Introduction

4-Tert-butylcatechol is an organic chemical compound obtained by the butylation of Catechol using Isobutene gas. TBC is available in off-white to amber coloured crystalline solid or flakes. It is mainly used as a polymerization inhibitor or a stabilizer for polymerizable monomers.

TBC is available in different forms such as Flakes, 85% in Water, 85% in Methanol etc. The use of these in production, transportation or storage of monomers depends on its solubility in a particular monomer. The concentration of TBC in monomers varies from one another, in order to inhibit the polymerization.

TBC is harmful to human health, in contact with skin or if swallowed. It is corrosive and causes severe skin burns and eye damage. It may cause an allergic skin reaction. TBC may have a very toxic and long lasting effect to aquatic life.

Chemical Identity



| | |
|--------------------------|---|
| NAME | :4-tert-Butylcatechol (4-TBC) |
| CHEMICAL NAME | :4-tert-Butylbenzene-1,2-diol |
| SYNONYM | :4-tert-Butylpyrocatechol p-tert-Butylcatechol |
| CAS NO | :98-29-3 |
| MOLECULAR FORMULA | :C ₁₀ H ₁₄ O ₂ |
| MOLECULAR WEIGHT | :166.22 g/mol |

**4-TERT-BUTYL CATECHOL
(TBC)
MOLTEN SOLID**

Physical & Chemical Properties

| | |
|------------------------|---|
| Appearance | :Off-white to amber coloured molten solid |
| Odor | :Phenolic odour |
| Purity by GC | :Min 99.0% |
| Melting Point | :52-57°C |
| Boiling Point | :284-286°C |
| Solubility in Solvents | :Soluble in Methanol, Acetone, Ether etc |
| Explosive Properties | :Non-Explosive |

Uses & Applications

Polymerization Inhibitor: TBC is used as polymerization inhibitor for monomers including Butadiene, Styrene, Vinyl acetate, Vinyl chloride, Chloroprene, Isoprene and unsaturated hydrocarbons. It is added during the manufacturing process or to products that require transportation and storage.

Antioxidant/Stabilizer: TBC is effective as an antioxidant for a wide range of chemical compounds and polymers such as Polyethylene, Polypropylene, Polychloroprene, Silicon Rubber, Heptane, Dicyclopentadine, Vinyl pyridine, Trichloroethylene and Perchloroethylene etc.

Chelating agent for Stannic Tin catalyst used in Urethane foams.
Gum Inhibitor for Ethylene and Propylene compressors.
Polymerization Retarder for unsaturated polyesters or some meth acrylic resins.

Packaging & Shelf Life

Molten Solid: Packed in 200 Kg MS drums & 1000 Kg IBC.
The product has a shelf life of one year from its manufacturing date, when properly stored in its original sealed container. Keep the product in a tightly closed container away from light in cool dry place.

Disclaimer

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