

p-tert-Butylbenzoic Acid (PTBBA)

Aromatic monocarboxylic-acid modifier for alkyd resins and selected specialty-chemical intermediates.

CAS No. 98-73-7	EC / List No. 202-696-3	Transport Class 6.1 — Toxic solid
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Product Information

p-tert-Butylbenzoic acid, commonly abbreviated PTBBA, is an aromatic monocarboxylic acid with a tert-butyl substituent. CAS 98-73-7 distinguishes it from butyl benzoate esters and differently substituted benzoic acids. ZXCHEM supplies the industrial crystalline grade for resin and intermediate development.

Specifications

Parameter	Specification
Appearance	White crystalline powder
Assay	≥99.0 %
Melting range	162–166 °C
Acid value	312–316 mg KOH/g
Iron	≤3 mg/kg
Water	≤0.10 %
Ash	≤0.10 %
Color, Hazen	≤20

Supply specifications follow the local 2026 ZXCHEM TDS and apply to the stated commercial grade. Test suitability in the intended process and complete formulation.

Typical Properties

Property	Typical Value
Molecular formula	C ₁₁ H ₁₄ O ₂
Molecular weight	178.23 g/mol

Applications

Alkyd resin modification: Monofunctional acid modifier for selected alkyd systems. Evaluate synthesis endpoint, resin viscosity, colour and coating-film performance.

Specialty chemical intermediates: Feedstock for selected benzoate and stabilizer chemistry. Assess reaction compatibility, conversion and the purity required by the downstream process.

Metalworking additive development: Intermediate for selected metalworking and corrosion-control packages. Test solubility, formulation stability and application performance.

Packaging / Storage

Item	Information
Packing	25 kg lined bags
Storage	Store tightly sealed in a cool, dry, ventilated area with restricted access. Keep away from strong bases and oxidizers; control dust and protect against contamination.
Handling	Use enclosed powder feeding or local extraction. Wear suitable protective gloves, eye protection and work clothing; avoid dust inhalation and direct contact. Provide controls for fumes during hot processing.

Company Contact

Supplier	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
Shanghai office	Room 1001, Building A, Caohejing Center, No. 1520 Gumei Road, Xuhui District, Shanghai, China
Telephone / Email	+86-21-54265599 / sales@zxchem.com.cn
Website	www.zxchem.com