

Tetrabromophthalic Anhydride (TBPA)

Reactive brominated intermediate development for flame-retardant resin systems.

CAS No. 632-79-1	EC / List No. 211-185-4	Transport Non-dangerous goods
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Product Information

Tetrabromophthalic anhydride is a brominated aromatic anhydride used as a reactive intermediate in selected flame-retardant resin systems. Its anhydride functionality distinguishes it from brominated additive powders that are blended without reaction. The correct molecular formula for CAS 632-79-1 is C₈Br₄O₃.

Specifications

Parameter	Specification
Appearance	White to light yellow powder
Bromine content	≥67.0 %
Melting point	≥270 °C
Sulfate	≤0.15 %
Moisture	≤0.20 %
Neutralization equivalent	228–242 g/eq

Supply specifications follow the local ZXCHEM TDS. Values apply to the stated grade; complete-formulation flame performance requires testing.

Typical Properties

Property	Typical Value
Molecular formula	C ₈ Br ₄ O ₃
Molecular weight	463.70 g/mol

Applications

Reactive resin intermediates: Brominated anhydride for selected unsaturated polyester and polyurethane-intermediate development. Assess reaction stoichiometry, conversion, viscosity and cured performance.

Brominated ester and imide synthesis: Intermediate for selected downstream brominated compounds. Match purity and moisture control to the reaction and purification requirements.

Epoxy-related formulation development: Reactive intermediate for selected resin systems. Evaluate cure response, compatibility and finished-system fire performance before fixing a loading.

Packaging / Storage

Item	Information
Packing	25 kg bags / 1,000 kg bulk bags
Storage	Store sealed in a cool, dry, ventilated warehouse. Protect the anhydride from moisture, heat and contamination; separate from oxidizers.
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)
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