

# Trimellitic Anhydride

Trifunctional aromatic anhydride intermediate for plasticizers, polyester resins, coatings and related chemical synthesis.

|                     |                            |                                  |
|---------------------|----------------------------|----------------------------------|
| CAS No.<br>552-30-7 | EC / List No.<br>209-008-0 | Transport<br>Non-dangerous goods |
|---------------------|----------------------------|----------------------------------|

## Product Information

Trifunctional aromatic anhydride intermediate for plasticizers, polyester resins, coatings and related chemical synthesis.

## Specifications

| Parameter                                        | Specification             |
|--------------------------------------------------|---------------------------|
| Appearance                                       | White flakes or pastilles |
| Acid value                                       | ≥873 mg KOH/g             |
| Anhydride content                                | ≥98.0 %                   |
| Melting point                                    | ≥164 °C                   |
| Molten colour                                    | ≤120 Pt-Co                |
| Phthalic anhydride — excellent / qualified grade | ≤50 / ≤100 mg/kg          |

Grade-specific supply limits. The agreed specification and batch COA govern delivery.

## Typical Properties

| Property          | Typical Value |
|-------------------|---------------|
| Molecular formula | C9H4O5        |
| Molecular weight  | 192.13 g/mol  |

## Applications

Trimellitate plasticizer synthesis: Intermediate for TOTM and related trimellitate esters.

Polyester resins, coatings and wire enamels: Functional intermediate for selected polyester and alkyd resin systems.

Epoxy and specialty chemical development: Material for qualified epoxy-curing, lubricant and other specialty chemical routes.

## Packaging / Storage

| Item     | Information                                                                                                                                                                                                                                                                                                                         |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Packing  | 25 kg paper-composite bags; 500 kg or 1,000 kg lined woven bags                                                                                                                                                                                                                                                                     |
| Storage  | Store tightly closed, cool, dry and well ventilated. Protect from moisture and prevent contamination. Segregate from strong bases, strong acids and oxidizing agents.                                                                                                                                                               |
| Handling | Use enclosed transfer or effective local extraction to control sensitizing dust. Wear chemical-resistant gloves, protective clothing and splash goggles with a face shield where needed. Use suitable respiratory protection under the workplace exposure assessment; avoid skin contact and provide accessible eyewash facilities. |

## 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 |
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