

Pyromellitic Dianhydride

Aromatic dianhydride intermediate for polyimide synthesis, epoxy curing and polymer modification.

CAS No. 89-32-7	EC / List No. 201-898-9	Transport Non-dangerous goods
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Product Information

Aromatic dianhydride intermediate for polyimide synthesis, epoxy curing and polymer modification.

Specifications

Parameter	Specification
Appearance	White crystalline powder
Assay	≥99.5 %
Trimellitic acid	≤0.2 %
Melting range	286–287.5 °C
Free acid	≤0.5 %
Oil-insoluble matter	≤15 ppm
Colour, absorption in methanol	≤25
Residual acetone	≤1500 ppm
Halides	≤5 ppm
Particles above 500 µm	≤5 %
Particles above 80 µm	≥95 %
Total metals	≤20 ppm

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

Typical Properties

Property	Typical Value
Molecular formula	C10H2O6
Molecular weight	218.12 g/mol

Applications

Polyimide films and fibres: Aromatic dianhydride monomer for qualified polyimide film and fibre synthesis.

Electrical-insulation coatings and adhesives: Intermediate for selected polyimide coating, adhesive and electrical-insulation systems.

Epoxy curing and polymer modification: Evaluate as an anhydride curing agent or polymer-modification intermediate.

Packaging / Storage

Item	Information
Packing	1 kg bags or 20 / 25 kg lined cartons
Storage	Keep tightly closed in intact moisture-protective packaging in a cool, dry, well-ventilated area. Avoid moisture, alcohols and strong oxidizing agents.
Handling	Provide effective local exhaust where powder is handled. Wear chemical-resistant gloves, splash goggles with face protection and suitable protective clothing. Prevent skin contact and dust inhalation; respiratory sensitization requires a workplace assessment and suitable particulate protection where needed.

Company Contact

Supplier	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
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