

Maleic Anhydride

Reactive chemical intermediate for unsaturated polyester resins and specialty synthesis.

CAS No. 108-31-6	EC / List No. 203-571-6	Transport Class 8 — Corrosive
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Product Information

Maleic anhydride is an unsaturated cyclic anhydride with molecular formula C₄H₂O₃ and molecular weight 98.06 g/mol. Its reactive anhydride and carbon-carbon double bond make it useful in resin manufacture and the synthesis of selected chemical intermediates.

Specifications

Parameter	Specification
Appearance	White crystalline flakes or needles
Assay	≥99.0 %
Molten color — source control value	25
Solidification point	≥52.4 °C
Ash	≤0.005 %
Iron	≤5 ppm

Supply limits follow the TDS. The source molten-color value is 25 without a stated inequality or color scale; it is retained as a source control value rather than an inferred acceptance limit.

Typical Properties

Property	Typical Value
Molecular formula	C ₄ H ₂ O ₃
Molecular weight	98.06 g/mol

Applications

Unsaturated polyester resin production: Reactive acid component for polyester synthesis with suitable glycols and other comonomers. Evaluate assay, color, solidification behaviour and impurity tolerance against the designed resin system.

Lubricant and polymer intermediates: Starting material for selected specialty additive and polymer-intermediate chemistry. Control moisture, reaction conditions and downstream purification to meet the intended performance requirements.

Chemical and surfactant synthesis: Intermediate for selected ester, acid and surfactant derivatives. Match raw-material purity and handling controls to the complete reaction and final-product specification.

Packaging / Storage

Item	Information
Packing	25 kg PE-lined plastic woven bags
Storage	Keep tightly sealed in a cool, dry, ventilated area. Protect from moisture and water contact. Store away from alcohols, alkali metals, strong oxidizers and strong reducing agents.
Handling	Avoid generating or inhaling dust. Use enclosed handling and local extraction, chemical-resistant gloves, eye and face protection and protective clothing. Provide eyewash and emergency washing facilities; manage dust under the workplace exposure-control program.

Company Contact

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