

DOPO

Phosphorus-containing reactive intermediate used in flame-retardant resin and polymer development.

CAS 35948-25-5	EC 252-813-7	Transport Not regulated · ADR/IMDG/IATA
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Product Information

DOPO contains a reactive phosphorus-hydrogen group in a cyclic structure. It can be incorporated into appropriately designed resin reactions or used to prepare phosphorus-containing derivatives. The supplied grade controls assay, melting range and trace iron and zinc. Reaction design, process temperature and compatibility with the base resin determine its use. Fire performance must be established in the finished polymer with the required test method; raw-material assay alone does not predict a flame rating.

Specifications

Parameter	Specification
Appearance	White powder or granules
Assay	≥99.0 %
Melting range	116–120 °C
Iron	≤20 mg/kg
Zinc	≤20 mg/kg

Typical Properties

Property	Typical Value
Molecular formula (component)	C ₁₂ H ₉ O ₂ P
Molecular weight (component)	216.18 g/mol

Applications

Epoxy resin development: Evaluate DOPO in reactive phosphorus-containing epoxy systems.

Flame-retardant intermediates: Use DOPO as an intermediate for phosphorus-containing derivatives.

Polymer modification: Assess compatible DOPO-derived chemistry for polymer modification.

Packaging / Storage

Item	Information
Packaging	20 kg bags.
Storage	Store closed in a cool, dry, ventilated place, protected from moisture and incompatible oxidizers.

Company Contact

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