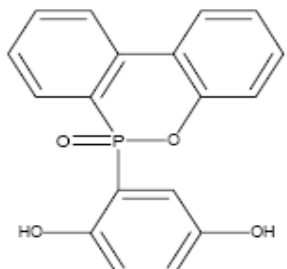


MK® DOPO-HQ

ED2312

Description

| | |
|--------------------|--|
| Chemical Name | 6-(2,5-Dihydroxyphenyl)-6H-dibenz [c,e] [1,2] oxaphosphorine-6-oxide 10-(2,5-Dihydroxyphenyl)-10H-9-oxa-10-phospha-phenantrene-10-Oxide |
| CAS Number | 99208-50-1 |
| Chemical Structure |  |
| Chemical Formula | C ₁₈ H ₁₃ O ₄ P |
| Molecular Weight | 324.28 |

Specification

| | |
|-----------------------|---|
| Appearance | White powder and granule |
| Assay | 99% min |
| Melting Point | 245°C~253°C |
| Specific Gravity | 1.38~1.40 (25°C) |
| Solubility (g/L@20°C) | |
| Slightly Soluble in | Methanol, Ethanol, Isopropanol, Acetone, MEK, THF, DMF |
| InSoluble in | Water |
| Packing | Net 20kg /box |

Application

MK DOPO-HQ is a new phosphate, halogen-free Flame retardant, for high quality epoxy resin
Such as PCB, to replace TBBA, or adhesive for semiconductor, PCB, LED and so on.
Intermediate for synthesis of reactive Flame retardant.

For Example: Various amounts of DOPO-HQ were added to phenol formaldehyde novolac
As a curing agent for cresol formaldehyde novolac epoxy resin to determine the
Flame-retardant effect of phosphorus.

It serves as stabilizers and flame retardant for polymers. It also can be copolymerized in
Epoxy, polyester, polyurethane resins to exhibit superior stabilization and flame
Retardant with resistance to solvent extraction, volatility and blooming. The max
Thermo-decomposition rate of the DOPO-HQ is 350°C.