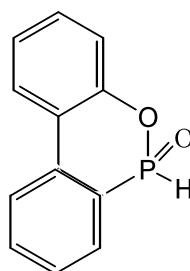




## SPECIFICATION SHEET

# KFR-DOPO



Chemical Name:	9, 10-dihydro-9-oxa-10-phosphaphenanthrene-10-oxide
CAS No.:	35948-25-5
Appearance:	White flake
Assay (%)	99% min.
Melting Point:	116°C ~ 119°C
Boiling Point:	200°C / 1mm Hg
Specific gravity:	1.378/25°C
Metal Content: (Fe, Cr, Hg, Cd, Pb, Na, N, K)	< 1 ppm
Transmittance: (1g in 10mL methanol)	T <sub>425nm</sub> ≥ 98%
Solubility:	Easily soluble in methanol, ethanol, isopropanol, chloroform, DMF, DMSO. Slightly soluble in benzene, toluene. Hardly soluble in water, n-hexane.
Chemical properties:	Although this product easily absorb the moisture in the open air caused influent the quality situation but it is restored by heating

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again.

Application:

Flame retardant epoxy resin for PCB: Owing to the rigid structure of KFR-DOPO and pendant phosphorus group, the resultant phosphorus containing epoxy resin exhibited better environmentally retardant, higher glass transition temperature, thermal stability, less toxic and smoke than the conventional flame retardant epoxy resin systems containing tetrabromo bisphenol A(TBBA). UL94-VO rating could be achieved with a phosphorus content of 2% in epoxy resin. It has demonstrated superior ability as flame retardant for printed circuit board (PCB) and electrical laminate.

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