

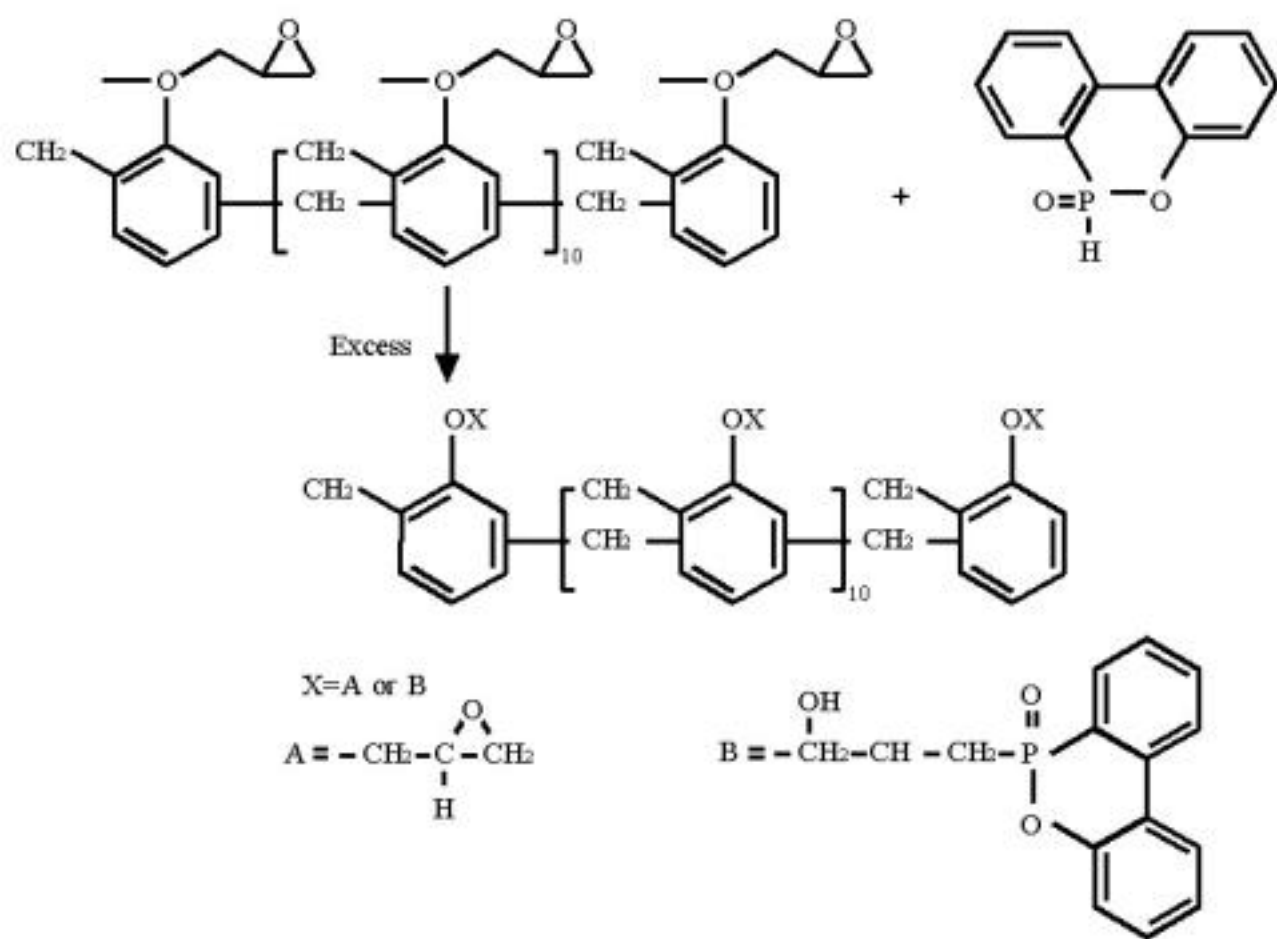
有機リン化合物

Organic Phosphorus Compound - **CF-168DOPO**

Product name	CF-168 DOPO
Chemical name	9,10-Dihydro-9-Oxa-10-Phosphaphenanthrene-10-Oxide (3,4,5,6-Dibenzo-1,2-Oxaphosphane-2-Oxide)
Formula	C ₁₂ H ₉ O ₂ P
Molecular	216
Structure	
CAS	5948-25-25
Physical properties	
Appearance	White Color Flake
Purity	>99% (HPLC)
Specific Gravity	1.378/25°C
Melting point	>115°C
Phosphor content	14.35%
Boiling point	Approx. 200°C/1mmHg
Solubility	Easily soluble in methanol, ethanol, isopropanol, chloroform, DMF, DMSD. 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 again.

APPLICATION

CF-186 DOPO is a new system flame retardant, it can replace the conventional flame retardant tetrabromo bisphenol-A(TBBPA). DOPO is the green flame retardant accept by European Union. Owing to the rigid structure of DOPO and pendant phosphorus group, the resultant phosphorus containing epoxy resin exhibited better environmently retardant, higher glass transition temperature, thermal stability, less toxic and smoke than the conventional flane retardant epoxy resin systems containing TBBPA. FR-4 rating could be achieved with DOPO content in epoxy resin. It have demonstrated superior ability as flame retardant for printed circuit board (PCB) and electrical laminate.



Derivatives

Flame retardants	Structure	resin	Application
DOPO-BQ			PCB
DOPO		PET	
DOPO-X			PCB