



# Shanghai King Chemical Co.,Ltd

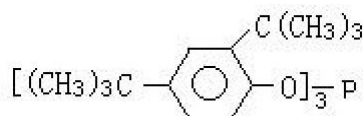
Tel: +86-21-67817854 Fax: +86-21-67817855

Address: ROOM CDEF , 9th Floor, Building D, Weijing Center Tower

NO.2337 GuDai Road, Minhang District, Shanghai, China

## Antioxidant KC-168

- **Chemical Name:** Tris-(2,4-di-tert-butyl-phenyl phosphate)
- **Molecular Weight:** M=646
- **Molecular Formula:** C<sub>42</sub>H<sub>63</sub>O<sub>3</sub>P
- **Chemical Structure Formula:**



- **Typical Physical Properties: HG/T 3712-2003**

Item		Standard
Appearance		White Powder
Melting Range (°C)		183~187
Volatile (%)		≤ 0.3
Solubility (2g/20ml, Toluene)		Limpidity
Light Transmittance	425nm, %	≥ 98
	500nm, %	≥ 98
Acid Number (mgKOH/g)		≤ 0.3
Anti-Hydrolyze (90°C, Water, 14h)		Qualified
2,4- t-Butyl-Phenol (%)		≤ 0.2
Purity (%)		≥ 99

- **Features:** It is easily soluble in such organic solvents as benzene, chloroform, cyclohexane etc., slightly soluble in esters, but not in polar solvents, such as water, alcohols etc. Low toxicity, good thermostability, non-hydrolyzable, etc. The peculiarity is that it can all be retrieved if soaking in the hot water at 90±1 °C within 14 hours and its quality will not be affected.
- **Applications:** It is a secondary antioxidant with excellent resistance to extraction by water, low volatility and high heat stability. It can effectively decompose hydroperoxides produced during the processing of polymeric materials. It isn't usually used alone, compounded with hindered phenolic primary antioxidants such as KC1010, to improve thermostability of polymer during the processing. There are over ten kinds of blends of KC-168 with phenolic antioxidants, widely used in the polymer materials, such as polyolefins (eg. Polyethylene, polypropylene etc.), polyamide, polycarbonate, ABS and so on. The product has good effect with HALS.
- **Storage:** Stable in property. No special requirement but keep away from damp or heat.
- **Packing:** Net weight 25kg bags or cartons. It can also be designed according to customers' requirements.