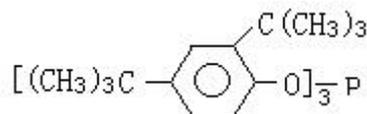


**HYANOX 168**

- **ChemicalName:** Tris(2,4-di-tert-butyl-phenyl)phosphite
- **Molecular Weight:** M=647
- **Molecular Formula:** C₄₂H₆₃O₃P
- **Chemical Structure Formula:**



- **Typical Physical Properties: HG/T 3712-2010**

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 (95°C, Water, 5h)		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 thermo-stability, 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 hydro-peroxides produced during the processing of polymeric materials. It isn't usually used alone, compounded with hindered phenolic primary antioxidants such as HYANOX1010, to improve thermo-stability of polymer during the processing. There are over ten kinds of blends of HYANOX-168 with phenolic antioxidants, widely used in the polymer materials, such as polyolefins (eg. Polyethylene, polypropylene etc.), poly-amide, polycarbonate, ABS and so on. The product has good effect with HALS.
- **Recommended Dosage:** 0.1-0.3%
- **Storage:** Stable in property. No special requirement but keep away from damp or heat.
- **Packing:** It is packed in cardboard box lined with plastic bags with the net capacity of 25 kg or packed in three-in-one compound bags. The inner layer is plastic film and the outer is polypropylene braided lining craft paper bags with the net weight of 25kg.

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