

# Antioxidant Plaox-168

**Chemical name:** Tri-(2, 4-di-tert-butyl-phenyl)-Phosphite

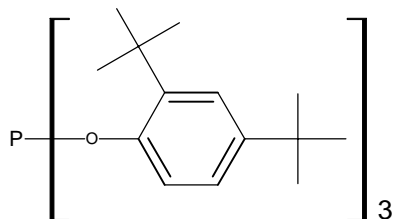
**Equivalent:** Irgafos 168 (Ciba SC)/ Alkanox 240 (Chemtura)

**Molecular formula:** C<sub>42</sub>H<sub>63</sub>O<sub>3</sub>P

**Molecular weight:** 646.93

**CAS No.:** 31570-04-4

**Structural formula:**



## PHYSICAL PROPERTIES

Appearance: White powder

Melting range: 182 ~ 187 °C

Solubility (g/100g solvent), @20 °C

Water: 0.01

Methanol: 0.01

Flash point: 225 °C

Specific gravity (g/cm<sup>3</sup>), @20 °C: 1.03

Acetone: 1

N-Hexane: 11

## SPECIFICATIONS

Appearance: White powder or granular

Clarity test: Clear

Melting point: 183.0 ~187.0 °C

Volatile: 0.3% max

Acid value (mg KOH/g): 0.3%max

Hydrolyze time(h): 14 min

Transmittance (425nm): 98.0% min

Transmittance (500nm): 98.0% min

Free 2, 4-di-tert-butyl-phenol: 0.2% max

Assay: 99.0% min

## APPLICATIONS

Plaox-168 is a kind of phosphite ester antioxidant. It has a good synergistic with other antioxidants, for example, Plaox-1010, and Plaox-1076. It is widely used for PE, PP, PC resin, etc. The dosage is recommended to be 0.1 ~ 1.0 phr. Plaox-168 can be used in food contact plastics.

## PACKING

25kg/bag