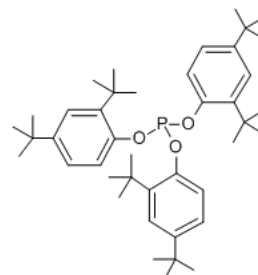


## GC THANOX 168



Tris(2,4-di-tert-butylphenyl) phosphite

Chemical Formula  $C_{42}H_{63}O_3P$   
Molecular Weight 646.92 g/mol  
CAS Registry Number 31570-04-4

GC THANOX 168 is an organo-phosphite antioxidant that exhibits excellent hydrolytic stability. GC THANOX 168 effectively reduces peroxide induced oxidative degradation of most polymeric substances during processing. The low volatility of GC THANOX 168 allows for use at the high temperatures required for processing thermoplastic polymers.

GC THANOX 168 is suitable for use in a multitude of polymers such as polyolefins, polycarbonate, ABS and polyesters.

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### PHYSICO-CHEMICAL PROPERTIES

|               |                        |
|---------------|------------------------|
| Appearance    | White powder           |
| Density       | 1.00 g/cm <sup>3</sup> |
| Melting point | 183-187 °C             |
| 2,4-DTBP      | Max 0.2 %              |
| Volatiles,    | Max 0.3 %              |
| Assay (HPLC)  | Min 99.0 %             |

|                                      |           |           |                |      |
|--------------------------------------|-----------|-----------|----------------|------|
| Solubility, (a 20°C in 100g solvent) | Methanol: | Insoluble | Acetone:       | 1 g  |
|                                      | Water:    | Insoluble | Chloroform:    | 36 g |
|                                      | n-Hexane: | 11 g      | Ethyl Acetate: | 4 g  |
|                                      | Benzene:  | 34 g      |                |      |

|  |                    |            |             |             |
|--|--------------------|------------|-------------|-------------|
| TGA (10 mg @ 10°C/min under N <sub>2</sub> ) | <u>Weight Loss</u> | <u>5 %</u> | <u>10 %</u> | <u>25 %</u> |
|  | Temperature        | 239 °C     | 250°C       | 272 °C      |

|                                  |         |          |
|----------------------------------|---------|----------|
| Transmittance (5g/50 ml Toluene) | @425 nm | ≥ 98.0 % |
|                                  | @500 nm | ≥ 98.0 % |

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### HANDLING AND STORAGE:

The processing and use of GC THANOX 168 requires adequate technical and professional knowledge. Please consult safety data sheet for further handling, storage and toxicity information.

GC THANOX 168 has to be stored in tightly sealed original container in a cool and well-ventilated area, away from direct sunlight.

### PACKAGING:

Standard pack size of GC THANOX 168 is 25 Kg in plastic bags.

### NOTE:

Information contained in this document is provided to the best of our knowledge and is considered true as per revision date. We do not accept any liability for loss and damage that may occur from the improper use of this information and for the use against the safety legal requirements and patent rights. This specification does not release the customer from the obligation to check the product as to its suitability for intended area of usage.