

# K.NOX 126

**CHEMICAL NAME**

bis(2,4-di-tert-butylphenyl)pentaerythritol diphosphite

**CAS NUMBER**

26741-53-7

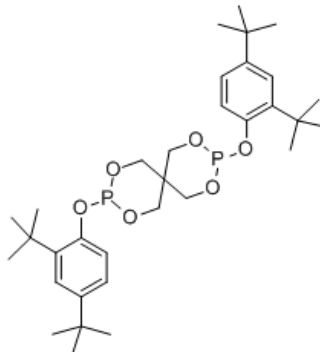
**EINECS NUMBER**

247-952-5

**MOLECULAR FORMULA**

C<sub>33</sub>H<sub>50</sub>O<sub>6</sub>P<sub>2</sub>

**STRUCTURE**



**MOLECULAR WEIGHT**

604 g/mol

**CHARACTERIZATION**

**K.NOX 126** provides outstanding processing stability in a variety of applications and substrates, including polyethylene, polypropylene and ethylene-vinylacetate copolymers. K.NOX 126 can also be used in other polymers such as engineering plastics, styrene homo-and copolymers, polyurethanes, elastomers, adhesives and other organic substrates. K.NOX 126 is particularly effective when used in combination with K.NOX 1010 and K.NOX 1076.

**K.NOX 126** is a high performance solid organo-phosphite which protects polymers from degradation during the processing steps (compounding, pelletizing, fabrication, recycling).

- Protects polymers from molecular weight changes (e.g. chain scission or crosslinking)
- Prevents polymer discoloration due to degradation
- High performance at low concentration levels
- Synergistic performance when used in combination with K.NOX 1010 and K.NOX 1076
- Can be used in combination with K.SORB range

**CHEMICAL-PHYSICAL**

**PROPERTIES**

Appearance	White powder
Purity	95.0% min.
Melting point	≥160 °C
Flash point	168 °C
Bulk density	0.549 kg/l
Specific gravity @ 20°C	0.43 g/cm <sup>3</sup>
Volatile	1.0% max
Acidity (mg KOH/g)	≤ 0.5
Solubility @ 25°C (g/100g solvent)	
Water	insoluble
Toluene	35.7
THF	35
Acetone	8.5
Hexane	4.8
Heptane	4.5
Methanol	1.9

**PACKAGING**

**K.NOX 126** is supplied in 25 kg net carton box

**STORAGE / HANDLING**

**K.NOX 126** requires no special safety measured, provided the usual precautions for handling chemicals are observed. Avoid dust formation and ignition sources. For more detailed information please refer to the material safety data sheet.

**ADDITION LEVELS**

In the recommended applications, the concentration levels for **K.NOX 126** range typically between 0.05% and 0.15% depending on substrate and processing conditions. The optimum level is application specific. Performance data of **K.NOX 126** in various organic polymers and applications is available upon request.

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The information submitted in this publication is based on our current knowledge and experience. In view of the many factors that may affect processing and application, this data does not relieve processors from the responsibility of carrying out their own tests and experiments. Neither do they imply any legally binding assurance of certain properties or of suitability for a specific purpose. It is the responsibility of those to whom K Chimica supply their own products to ensure that any proprietary rights or patents and existing laws and legislation are observed. The product has not been tested for, and is therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended; or for uses for which implantation within the human body is intended.