

PowerNox™ 4426 Phenolic Antioxidant

Introduction PowerNox™ 4426 has extreme low volatile. It is used for synthetic resin antioxidants due to its resisting thermal oxidation good stability.

Chemical Name 2,2',6,6'-tetra-tert-butyl-4,4'-methylenediphenol

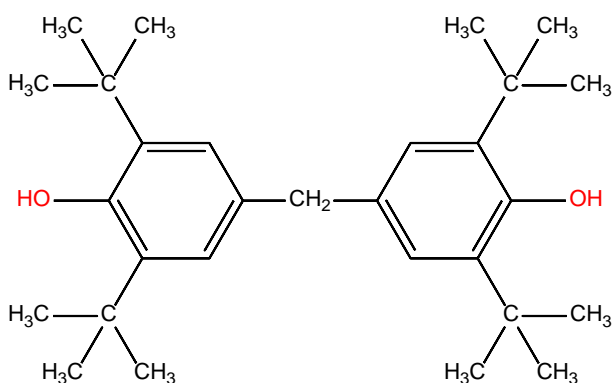
Synonym: 4,4'-methylenebis (2,6-di-tertiary-butylphenol)

Phenol, 4,4-methylenebis(2,6-bis(1,1-dimethylethyl)-

CAS Number 118-82-1

EINECS Number 204-279-1

Chemical Structure



Chemical Formula C₂₉H₄₄O₂

Molecular Weight 425

Physical Properties

Appearance	White Powder
Relative Density [15°C, g/cm ³]	0.88
Melting Point [°C]	154
Flash Point [°C]	170
Vapor Pressure [20°C, Pa]	<13
Ash (%)	Max.0.2

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Solubility

Solubility [20°C]	% w/w
Isooctane	4
Petroleum ether	8
Ethanol	6
Toluene	33
Water	<0.01
10% NaOH	<0.01

Benefits & Applications

PowerNox™ 4426 is premier multi-ring phenolic antioxidant for engine oil and industrial lubricants. It is a highly effective additive for suppressing the formation of acidic and insoluble products of oil oxidation.

PowerNox™ 4426 also has advantages as below:

- High hindered phenolic antioxidant activity
- Low volatility ensures optimum lubricant performance at high temperatures
- Inhibits deposit and sludge formation in the 1000-hour TOST and the CMA thermal stability test
- Synergistic with zinc dithiophosphates and alkylated diphenylamines
- Nonreactive with copper, iron, lead, and silver
- Reduces total deposits in the TEOST MHT-4

Handling & Storage

In accordance with good industrial practice, handle with care and avoid unnecessary personal contact. Avoid continuous or repetitive breathing of dust. Use only with adequate ventilation. Protect skin. Avoid dust formation and ignition sources.

This product may be stored up to one year in a sealed container. Containers should be stored in a cool, dry area. Extended storage at elevated temperatures or exposure to direct heat or sunlight could reduce product life. Keep containers sealed when not in use.

For more detailed information please refer to the material safety data sheet.

Packing

PowerNox™ 4426 is supplied in net weight 20kg plastic bag.



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Note

All information in the leaflet is based on our present knowledge and experience. We reserve the right to make any changes according to technological progress or further developments. Performance of the product described herein should be verified by testing.

We specifically disclaim any other express or implied warranty of fitness for a particular purpose or merchantability.

We disclaim liability for any incidental or consequential damages.