

PowerNox™ 1076 Phenolic Antioxidant

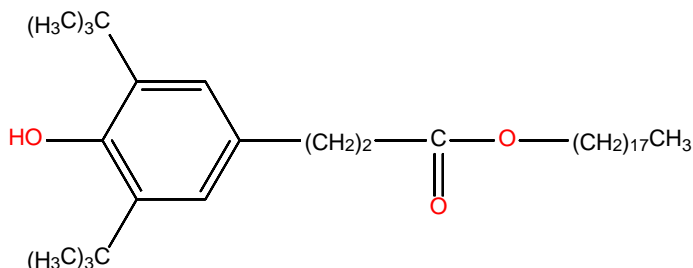
Introduction PowerNox™ 1076 is a primary antioxidant for organic polymers. It exhibits a synergistic effect in combination with PowerNox™1680 and other secondary antioxidants.

Chemical Name Octadecyl-3-(3,5-di-tert-butyl-4-hydroxyphenyl) propionate
 Synonym: Octadecyl 3,5-di-tert-butyl-4hydroxyhydrocinnamate

CAS Number 2082-79-3

EINECS Number 218-216-0

Chemical Structure



Chemical Formula C₃₅H₆₂O₃

Physical Properties

| | |
|-----------------------------|--------------|
| Appearance | White Powder |
| Specific Gravity | 1.02 |
| Melting Point [°C] | 50-55 |
| Flash Point [°C] | 272 |
| Vapor Pressure [20°C, Pa] | 2E-9 |
| Volatile Loss (%) | Max.0.2 |
| Color of Solution 425nm (%) | Min.97 |
| Color of Solution 500nm (%) | Min.98 |
| Ash (%) | Max.0.1 |
| Purity (%) | Min.99 |

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Solubility

| Solubility [20°C] | % w/w |
|-------------------|-------|
| Acetone | 19 |
| Benzene | 57 |
| Chloroform | 57 |
| Cyclohexane | 40 |
| Ethanol | 1.5 |
| Ethyl acetate | 42 |
| n-Hexane | 32 |
| Methanol | 0.6 |
| Toluene | 50 |
| Water | <0.01 |

Benefits & Applications

PowerNox™ 1076 is an effective antioxidant for use in polymer processing, reducing viscosity change and gel formation.

PowerNox™ 1076 provides long term heat stability - protects physical properties during storage and use of end-product.

PowerNox™ 1076 can be used with benzotriazoles or HALS for thermal and light stabilization in outdoor use.

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™ 1076 is supplied in 20Kg PE Bag, 20Kg Carton Box.

Note

All information in the leaflet is based on our present knowledge and



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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.

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