

# PowerNox™ 1076

*New Materials Creating New Performances*

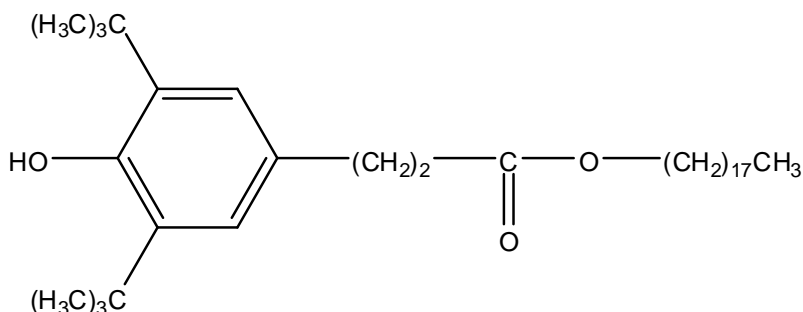
**Quality Products.  
Dependable Service.**

## CHEMICAL NAME

Octadecyl-3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate

Synonym: Octadecyl 3,5-di-tert-butyl-4hydroxyhydrocinnamate

## CHEMICAL STRUCTURE



## INTRODUCTION

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

## PHYSICAL PROPERTIES

CAS No.	2082-79-3
EC No.	218-216-0
Formula	C <sub>35</sub> H <sub>62</sub> O <sub>3</sub>
Molecular Weight	531
Specific Gravity	1.02
Melting Point(°C)	50-55
Flash Point(°C)	272
Vapor Pressure <sub>[20°C, Pa]</sub>	2E-9
Volatile Loss(%)	Max.0.2
Color of Solution 425nm(%)	Min.97

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Color of Solution 500nm(%)	Min.98
Appearance	White Powder
Ash(%)	Max.0.1
Min. Purity	99%

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

## 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 AND 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.

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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.

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