

# **ULTRANOX<sup>™</sup> 627AV** phosphite

## **Phosphite Antioxidant**

#### Description

**ULTRANOX<sup>™</sup> 627AV phosphite** is a high performance solid organophosphite antioxidant that contains no more than 1.0% by weight of Triisopropanolamine (CAS #122-20-3). **ULTRANOX<sup>™</sup> 627AV phosphite** is a free-flowing version of **ULTRANOX<sup>™</sup> 626 phosphite** with an inorganic neutralizer for improved handling characteristics.

## **Chemical Structure**

Bis (2,4-di-t-butylphenyl) Pentaerythritol Diphosphite Formula:  $C_{33}H_{50}O_6P_2$ Chemical Abstract Number: 26741-53-7/11097-59-9



## Applications

- Polyolefins
- Polyesters
- Styrenics
- Engineering thermoplastics
- PVC
- Elastomers
- Adhesives

#### **Product Features**

- Excellent color stability during compounding, fabrication and end use
- Reduction in polymer degradation during processing
- Improved gas fading performance in many applications
- Total formulation costs can be lowered by substituting ULTRANOX<sup>™</sup> 627AV phosphite for competitive solid antioxidant products
- Higher phosphorous content than competitive phosphite antioxidants

SI Group Inc., 2750 Balltown Road, Schenectady, NY 12309 PH: +1 518.347.4200 www.siigroup.com

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Jul 2019

# Typical physical properties of ULTRANOX<sup>™</sup> 627AV phosphite

Appearance	White Granule	
Melt Point (capillary)	Min 170°C - Max 180°C	
Acid No. (mg KOH/g)	1.0 max.	
Free 2, 4-di-t-butylphenol (%)	1.0 max.	
Phosphorous Content (%)	9.1	
DHT-4A (%)	6.0-8.0	
Molecular Weight (g/mol)	604	
Flash Point (Pensky-Martens Closed Cup)	>100°C	
Melt Range (Differential Scanning	160-175°C (320-347°F)	
Colorimeter)		
Bulk Density @ 20°C (68°F) lbs/ft <sup>3</sup> (g/ml)	32.0 (0.51)	
Particle Size Distribution	95% greater than 60 mesh	

## **Dust Explosion Hazard**

## Test performed on ULTRANOX<sup>™</sup> 626 phosphite

Minimum Explosible Concentration	15 g/m <sup>3</sup>
Minimum Explosion Pressure (Bar)	7.5
Dust Explosion Class (ST-CL)	1
Minimum Ignition Energy	150 mJ
Minimum Ignition Temperature of Dust	370°C/700°F

## **Food Contact Regulatory Status**

For details please contact SI Group Regulatory Affairs Group

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# **Volatility By Thermal Gravimetric Analysis**

Conditions: Nitrogen atmosphere @ 36°F (20°C)/minute



# **Storage and Handling**

**ULTRANOX<sup>™</sup> 627AV phosphite** is stable in excess of one (1) year when stored under normal conditions in a cool, dry place away from any direct sources of heat and moisture.

For additional handling and toxicological information consult the SI Group Material Safety Data Sheet.

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