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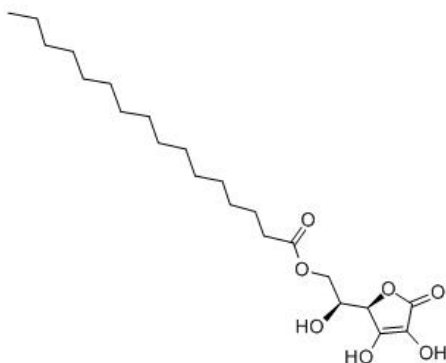
Site: www.tnjchem.com

## Technical Data Sheet

# Ascorbyl Palmitate

### Product Information

Product Name	Ascorbyl Palmitate
Synonyms	Vitamin C palmitate, L-Ascorbyl 6-palmitate, 6-O-Palmitoyl-L-ascorbic Acid, 6- palmitoyl-L (+) - ascorbic acid
CAS No.	137-66-6
EINECS No.	205-305-4
Molecular formula	C <sub>22</sub> H <sub>38</sub> O <sub>7</sub>
Molecular weight	414.53
Chemical structure	



### Physical Properties

Appearance	White or yellow-white powder. -Density: 1.15g/cm <sup>3</sup>
Melting Point	115-118°C (lit.)
Flashing Point	178.1°C
Refractive Index	22.5 ° (C=1, EtOH)
Vapor Pressure	3.32E-14mmHg at 25°C
Solubility	Easily soluble in water and vegetable oils, soluble in ethanol.

## Specification

Index Name	Specification
Appearance	A white or yellow-white powder
Assay(On dried basis)	98.0% ~ 100.5%
Whiteness matter	≥68
Appearance of solution	Clear and not more than BY4
Optical rotation	+21° ~ +24°
Melting range	107°C ~ 117°C
Loss on drying	≤0.80%
Residue on Ignition	≤0.1%
Bacteria amount	≤1000 cfu/g
Coliforms bacteria	≤30 MPN/100g
Pathogenic bacteria	Negative (Salmonella, shigella, staphylococcus aureus)
Heavy metals	≤4ppm
Lead	≤3ppm
Arsenic	≤1ppm
Cadmium	≤1ppm
Mercury	≤0.01ppm
Identification	Positive

## Safety

Ascorbyl Palmitate is a stable material, not dangerous on transportation  
Always refer to the Material Safety Data Sheet (MSDS)

## Applications

### 1) Food additives:

- Antioxidants.
- Color fixative. Used for the protection of natural pigments (such as chili red pigment, lycopene, carotene, lutein, etc.) easily oxidized.
- Use as a fat-soluble antioxidant, with a good effect on soybean oil, cottonseed oil, palm oil, unsaturated fats and hydrogenated vegetable oils.
- Dairy baby products, to prevent baby milk consumption from oxidation defeated.
- For fried products, it can prevent lipid rancidity to extend the shelf life (such as instant noodles, potato chips, fried fish, grilled meat, etc.).

### 2) Daily chemical

Fat-soluble whitening.

### 3) Pharmaceutical care

- Protect the active ingredient for the drug, to prevent oxidation.
- For nutrition enhancer of VC, it is without gastrointestinal irritation.

### **Packaging**

500g/Aluminum foil bag; 25kgs/fiber drum

### **Storage & Handling**

Sealed and stored in a cool dry place, mix with toxic substances is prohibited.  
Please refer to the Materials Safety Data Sheet (MSDS) for the handling methods.

Always refer to the Material Safety Data Sheet (MSDS) for detailed information on handling and disposal.

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