

# PowerSorb™ 3035

*New Materials Creating New Performances*

**Quality Products.  
Dependable Service.**

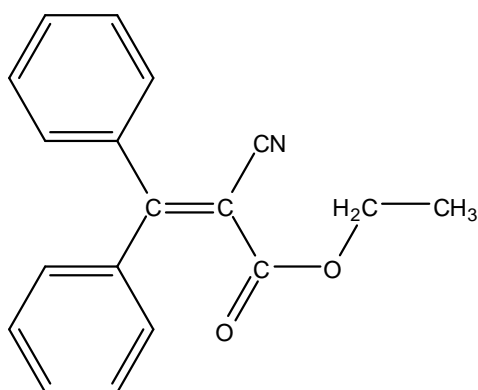
## Chemical Name

Ethyl-2-cyano-3,3-diphenylacrylate

Synonym: 2-Cyano-3,3-diphenyl-2-propenoicaciethylester;

2-Propenoic acid, 2-cyano-3,3-diphenyl-, ethyl ester; Etocrilene

## Chemical Structure



## Introduction

PowerSorb™ 3035 is a solid cyanoacrylate-type UV absorber (UVA) used as a light stabilizer in plastics, adhesives, and coatings. It is inherently non-discoloring and is also chemically non-interacting with reactive monomers and polymerization catalysts.

## Physical Properties

|                  |   |
|------------------|---|
| CAS No.          | 5232-99-5                                       |
| EC No.           | 226-029-0                                       |
| Formula          | C <sub>18</sub> H <sub>15</sub> NO <sub>2</sub> |
| Molecular Weight | 277   |
| Specific gravity | 1.03  |

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|                             |              |
|-----------------------------|--------------|
| Melting Point(°C)           | 96-98        |
| Volatiles (%)               | Max.0.5      |
| K-Value (303nm)             | Min.46       |
| Gardner colour value        | Max.2        |
| Turbidity(NTU)              | Max.10       |
| Color of Solution 460nm (%) | Min.95       |
| Color of Solution 500nm (%) | Min.97       |
| Appearance                  | White powder |
| Ash (%)                     | 0.1 Max      |
| Min. Purity                 | 99%          |
| <hr/>                       |              |
| Solubility (20°C)           | % w/w        |
| Ethyl acetate               | 35           |
| Ethanol                     | 4            |
| Methanol                    | 7            |
| Methyl ethyl ketone         | 45           |
| Toluene                     | 35           |
| Water                       | <0.01        |

## Applications

PowerSorb™ 3035 is a highly effective to improve the light stability of a wide range of plastics, including styrenic polymers (ABS, ASA, HIPS, TPE's), PVC (rigid and flexible), polyesters, polyamides, polyurethanes, and acrylics.

PowerSorb™ 3035 is also useful as a light stabilizer in adhesives and coatings applications.

PowerSorb™ 3035 is ideal for use in transparent or light-colored substrates due to its inherently non-discoloring nature. It is also non-interacting with reactive monomers (e.g. isocyanates) and metal-based polymerization catalysts. It is also suitable for use in combination with optical brighteners.

## Handling and Storage

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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

PowerSorb™ 3035 is supplied in net weight 25kg fiber drum with PE liner.

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