

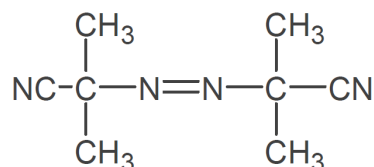
# PEROXAN AZDN-C

## Azo compounds / Polymerization

### Description

2,2'-Azodiisobutyronitrile  
98%, Crystallin

PEROXAN AZDN-C is used for the (co)polymerization of styrene, vinylchloride, vinylidenechloride, acrylonitrile, acrylates and methacrylates.



Molecular weight:

**164.2**

CAS No.:

**78-67-1**

### Technical data

Appearance:

**white crystals**

Nitrogen assay:

**min. 16.71%**

Active substance assay:

**min. 98%**

Bulk density at 20°C:

**480 kg/m<sup>3</sup>**

### Half life time

in chlorobenzene:

t <sub>1/2</sub>	10h	1h	1min
bei	<b>64°C</b>	<b>82°C</b>	<b>118°C</b>

### Storage

Maximum storage temperature (Ts max):

**25°C**

Storage stability as from date of delivery:

**6 months**

### Hazardous reactions

Azo Compounds are more or less stable products but will decompose under the influence of heat. To minimize a loss of quality during storage, it is important that the recommended maximum storage temperature is not exceeded. If a minimum storage temperature is given, an undesirable process such as a solidification or phase separation, is known to occur below this temperature.

### Safety characteristics

SADT: **50°C**

Emergency temperature: **45°C**

Control temperature: **40°C**

The SADT (Self Accelerating Decomposition Temperature) is the lowest temperature at which a self accelerating decomposition may occur.

The emergency temperature is derived from the SADT. It is the temperature at which emergency actions have to be taken. The control temperature is the maximum temperature at which the product can be transported safely.

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### Application

PEROXAN AZDN-C can be used for bulk, solution, suspension and emulsion polymerization of styrene, vinylchloride, vinylidenechloride, acrylonitrile, acrylates and methacrylates.

PEROXAN AZDN-C does not form oxygenated residues and does not cause oxidative degradation of pigmented or dyed polymer systems. For this reason, the color stability of transparent, dyed polymers is improved.

In acrylic paint manufacture, excessive grafting can be a problem when using peroxides. Because the cyano sec-butyl radical from PEROXAN AZDN-C shows less tendency to abstract hydrogen from a polymer chain than oxygen centered radicals, PEROXAN AZDN-C allows the production of resins with a low degree of grafting.

### Packaging

**20kg cardboard box**

### Major decomposition products

**2-Methylpropanenitrile, Methacrylonitrile, Nitrogen, Tetramethyl succinonitrile**

### Safety and handling

Please refer to the material safety data sheet (MSDS) for information concerning safe storage, use and handling of PEROXAN AZDN-C. This information should be thoroughly reviewed prior to acceptance of this product. The MSDS is available for downloading at [www.pergan.com](http://www.pergan.com) or through contacting Pergan directly.

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