

Dioctyl adipate (DOA)

Dioctyl adipate (DOA) is listed in the Adipates range for advanced industrial ester and formulation enquiries.

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ADTEC 170
DI-OCTYL ADIPATE - DOA
CAS NO: 123-79-5

PRODUCT DESCRIPTION

RHEOPLAST DOA (Di-Octyl Adipate) is a typical cold-resistant plasticizing agent with high plasticizing efficiency at high temperature and a small color change under heated conditions. It is applicable to polychloroethene, chlorovinyl copolymers, polystyrene, synthetic rubber, as well as many kinds of resins. It enables finished products to have good low-temperature softness, light resistance and good handling properties.

PROPERTIES

Property	Typical value
Appearance	Transparent liquid with suspended substances
Ester Content (%)	≥ 99.5
DOA Content (%)	≥ 99.0
Density at 20°C (g/cm ³)	0.924 – 0.929
Acid Value (mg KOH/g)	≤ 0.07
Flash Point (°C)	≥ 190
Water (%)	≤ 0.15
Chroma, Platinum-Cobalt (Hazen)	≤ 18

APPLICATIONS

- Plasticizer for polychloroethene (PVC) and chlorovinyl copolymers.
- Used in polystyrene, synthetic rubber and various resin systems.
- Provides good low-temperature flexibility and softness.
- Used in cold-resistant agricultural membranes.
- Used in packaging films for refrigerated food products.
- Used as a plasticizer for wire and cable coverings.
- Used in the manufacture of artificial leather.
- Used in plank and sheet materials.

STORAGE

Store in a cool, dry and well-ventilated area in tightly closed original containers. Protect from excessive heat and direct sunlight.

SHELF LIFE

12 months from the date of manufacture when stored under recommended storage conditions.

PACKAGING

- 190 kg iron drums
- Flexibag

PRECAUTIONARY STATEMENT

Polyrheo maintains up-to-date Safety Data Sheets (SDS) on all its products. These sheets contain pertinent information that you may need to protect your employees and customers against any known health or safety hazards associated with our products. Users should review the latest SDS to determine possible health hazards and appropriate precautions to implement prior to using this material.

NOTES

The values indicated in this document may deviate from the test method requirements by the number of significant figures shown. Results may be based on tank certification, manufacturing data, periodic testing and/or most recent product restock. This product, including the product name, shall not be used or tested in any medical application without the prior written acknowledgement of Polyrheo as to the intended use.

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