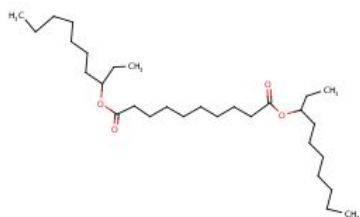


Technical Data Sheet

September 2022



Diisodecyl Sebacate

Description

DIDS is a mono-constituent substance of organic origin, obtained by the esterification of sebacic acid and isodecyl alcohol.

Function

DIDS It is a plasticizer whose main property is its good flexibility at low temperatures, with good resistance to weathering, water (humidity) and heat.

Properties

DIDS can be blended with polymeric plasticizers to optimize cost performance over a wide range of temperatures.

DIDS is very resistant to extraction plasticizer.

DIDS it is a plasticizer with higher permanence, higher resistance to extraction and lower volatility compared to **DOS** due to its higher molecular weight. Good stability to extreme cold.

DIDS It has very good mechanical properties in the finished product, due to its high resistance to breakage.

DIDS is a plasticizer that facilitates the manufacturing process since it improves the internal lubrication of the mixture.

DIISODECYL SEBACATE DIDS

Specifications	Value
Density 20 °C g/cm ³	0,905 – 0,912
Viscosity 20 °C cp	38 – 42
Viscosity index	176
Acid value mg KOH/g	≤ 0,2
Boiling point °C at 101.325 Pa	420
Flash point °C	226
Freezing point °C	≥ -55
Color Gardner	≤ 2
Saponification value	225 – 235
Vapour pressure at 25°C	0
Formula	C ₃₀ H ₅₈ O ₄
Partition coefficient log Pow	6,5
Water solubility mg/L at 20°C	< 1
Appearance	Liquid

Molecular weight	482,8
CAS number	28473-19-0
EINECS number	249-047-0
CN code	2917131000

Legislation

TSCA (USA), DSL (Canada), IECSC (China), ENCS (Japan), ECL (Korea).

REACH

Register number: 01-2119985852-22-0002

Application

DIDS It is used in the PVC processing industry, for the manufacture of cables and sheets resistant to freezing, their copolymers, cellulose resins, nitrile rubbers and artificial leather.

In the sector of lubricants and synthetic greases, due to its good viscosity stability, good stability against hydrolysis and its low solidification point.

Dosage

Between 20 – 30 % on resin.

Packaging

IBC 900 kg and drums 180 kg.