



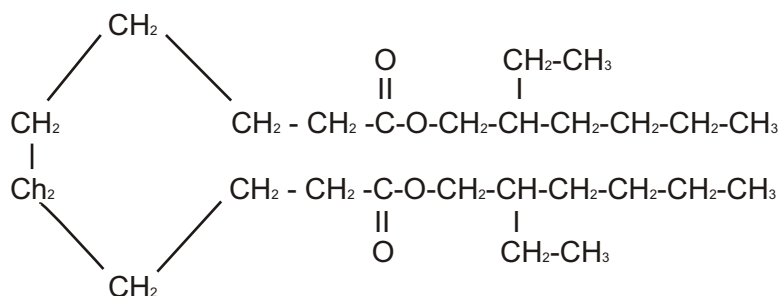
## DI OCTYL SEBACATE (DOS)

### DI OCTYL SEBACATE (DOS)

Primary plasticizer for PVC and PVC copolymers

**Chemical Nature** Sebacic acid ester of C<sub>8</sub> alcohol

Chemical Name :- Di (2-Ethylhexyl) Sebacate  
 Trade Name :- DOS , DEHS  
 Molecular Formula :- C<sub>26</sub>H<sub>50</sub>O<sub>4</sub>  
 Molecular Weight :- 426  
 Molecular Structure :- (CH<sub>2</sub>)<sub>8</sub>(COOC<sub>8</sub>H<sub>17</sub>)<sub>2</sub>



CAS Number :- 122-62-3, 131170-17-7 , 28986-40-5  
 UN. NO :-  
 EINECS NO :- 204-558-8

### Specification

#### Characteristics

#### Unit

#### Test Method

#### Value

Colour	HU	ASTM-D-1045-86	40 max.
Volatile Loss (130°C/3Hrs)	wt. %	KLJTM	0.20 max.
Ester Value	mg KOH/g	ASTM-D-1045-86	260-266
Acidity	wt. %	ASTM-D-1045-86	0.02 max.
Moisture	wt. %	ASTM-E-203	0.10 max.
Specific Gravity (27°C)	-	ASTM-D-1045-86	0.910–0.920
Ester content	wt. %	ASTM-D-1045-86	99.50 min.
Heat Stability (180°C/2Hrs)	HU	ISI-9591-96	No Change
Acidity after heat treatment	wt. %	ASTM-D-1045-86	0.03
Plasticizing Esters by GC	%by area	KLJTM	99.00 min.

#### Typical Properties

Boiling Point @ 7 mbar	°C	lit.	248.
Viscosity at 20°C	cp	KLJTM	59-63
Flash Point	°C	KLJTM	215
Refractive Index (27°C)	--	ASTM-D-1045-86	1.442-1.4452

Total Solution in Plasticizers



## DI OCTYL SEBACATE (DOS)

### Properties

**DOS** is almost colourless and oily liquid, free of foreign materials.

### Application

**Diocetyl Sebacate** is a plasticizer for PVC, and its copolymers, nitrocelluloses, styrene resins and synthetic rubbers where low temperature performance is required. The end applications include anti-frosting cable and PVC linoleum.

**Plasticizing Efficiency** 1.09

### Packing & Storage

**DOS** is packed in 200/225 kg iron drum / HDPE drum, 20 - 22 MT in Flexi tank / ISO tank / road tanker. It is stored in tightly closed container, in a cool, dry & ventilated area.

### Shelf Life

Original characteristics remain intact for 24 months, if kept in recommended storage.

### Safety

The MSDS can be provided on request.

### Disclaimer

The data contained in this publication are based on our current knowledge and experience. During processing, there are so many factors which may affect the application part of **DOS**, so these data neither imply any guarantee of certain properties, nor the suitability of the product for the specific purpose. Any data given in this publication may change without prior information and do not constitute the agreed quality of our product.