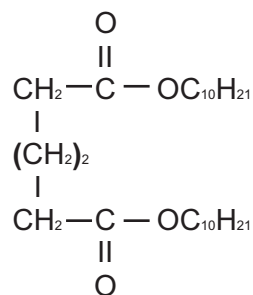


KANATOL - 10A

DI ISO DECYL ADIPATE (DIDA) Primary plasticizer for PVC and PVC copolymers

Chemical Nature Adipic acid ester of C₁₀ alcohol

Chemical Name :- DI- ISO DECYL ADIPATE
 Trade Name :- DIDA
 Molecular Formula :- C₂₆H₅₀O₄
 Molecular Weight :- 426
 Molecular Structure :- (CH₂)₄(COOC₁₀H₂₁)₂



CAS Number :- 27178-16-01
 UN. NO :-
 EINECS NO :- 248-299-9

| Specification | Characteristics | Unit | Test Method | Value |
|---------------|------------------------------|----------|----------------|---------------|
| | Colour | HU | ASTM-D-1045-86 | 40 max. |
| | Volatile Loss (130°C/3Hrs) | wt. % | KLJTM | 0.1 max. |
| | Ester Value | mg KOH/g | ASTM-D-1045-86 | 260-265 |
| | Acidity | wt. % | ASTM-D-1045-86 | 0.030 max. |
| | Moisture | wt. % | ASTM-E-203 | 0.10 max. |
| | Specific Gravity (27°C) | | ASTM-D-1045-86 | 0.910 – 0.925 |
| | Ester content wt. % | | ASTM-D-1045-86 | 99.00 min. |
| | Heat Stability (180°C/2Hrs) | HU | ISI-9591-96 | 50 HU |
| | Acidity after heat treatment | wt. % | ASTM-D-1045-86 | 0.05 |
| | Plasticizing Esters by GC | %by area | KLJTM | 99.00 min. |

Typical Properties

| | | | |
|-------------------------|-------|----------------|------------------------|
| Volume Resistivity | Ohmcm | KLJTM | 5±1 X 10 ¹¹ |
| Boiling Point@ 5 mmHG | °C | lit. | 239 |
| Pour point | °C | lit. | -68 |
| Viscosity at 20°C | cp | KLJTM | 25-27 |
| Flash Point (COC) | °C | KLJTM | 235 |
| Refractive Index (27°C) | | ASTM-D-1045-86 | 1.445 – 1.460 |

Total Solution in Plasticizers



KANATOL - 10A

Properties

DIDA is clear oily liquid, free of foreign materials, DIDA is the highest molecular weight of our monomeric adipate ester series. It the adipate diester for low volatility and resistance to extraction by soap and detergent.

Application

General purpose film, low viscosity plastisols and phthalate alternative.

Compatibility :-

- Cellulose acetate butyrate.
- Ethyl cellulose.
- Nitrocellulose
- Polychloroprene.
- Polyvinyl butyral.
- Polyvinyl chloride

Plasticizing Efficiency 1.05

Packing & Storage

DIDA is packed in 200/225 kg iron drum / HDPE drum, 20 - 22 fcl Flexi Tank or in road tanker. It is stored in tightly closed container, in a cool, dry & ventilated area.

Shelf Life

It keeps the original characteristics minimum 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 **DIDA**, 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 donot constitute the agreed quality of our product.