

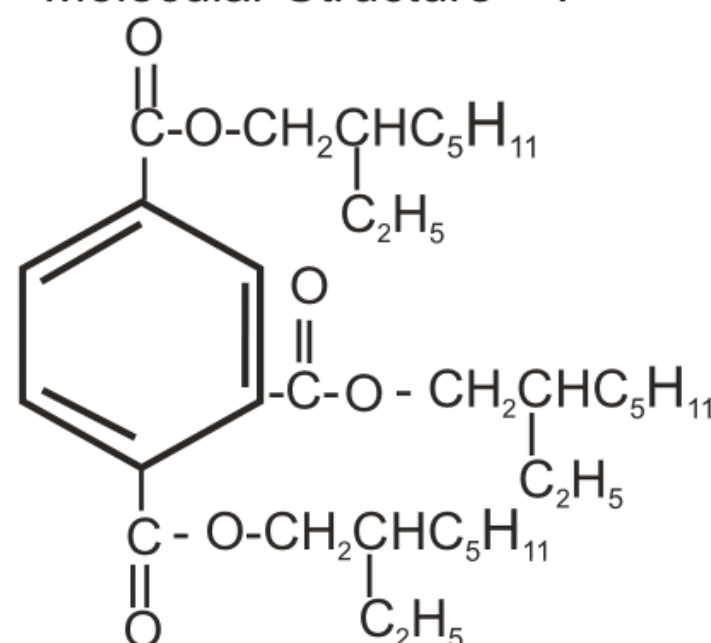


KANATOL - 3900 [TiNTM]

TRI-ISO NONYL TRIMELLITATE Primary plasticizer for PVC and PVC copolymers

Chemical Nature

Trimellitic anhydride acid ester of C₉ alcohol
 Chemical Name :- Tri Isononyl Trimellitate
 Trade Name :- TINTM, TNTM
 Molecular Formula :- C₃₆H₆₀O₆
 Molecular Weight :- 588.9
 Molecular Structure :- C₆H₃(COOC₉H₁₉)₃



CAS Number :- 53894-23-8
 UN. NO :-
 EINECS NO :- NA

Specification

Characteristics	Unit	Test Method	Value
Colour	HU	ASTM-D-1045-2008	50 HU max.
Volatile Loss (130°C/3Hrs)	wt. %	KLJTM	0.10 max.
Ester Value	mg KOH/g	ASTM-D-1045-2008	287±3
Acidity	wt. %	ASTM-D-1045-2008	0.030 max.
Moisture	wt. %	ASTM-E-203-2005	0.10 max.
Specific Gravity (27°C)	-	ASTM-D-1045-2008	0.978±0.003
Ester content	wt. %	ASTM-D-1045-2008	99.00 min.
Heat Stability (180°C/2Hrs)	HU	ISI-9591-2003	65.HU max
Acidity after heat treatment	wt. %	ASTM-D-1045-86	0.05.
Plasticizing Esters by GC	% by area	KLJTM	99.00 min.
Residual alcohol	% by area	KLJTM	0.20 max.

Typical Properties

Volume Resistivity	Ohmcm	KLJTM	4.5±1 X 10 ¹¹
Boiling Point @ 4 mbar	°C	lit.	300.
Pour point	°C	lit.	- 46.
Viscosity at 20°C	cp	KLJTM	285-292
Flash Point	°C	KLJTM	280.
Refractive Index (27°C)	-	ASTM-D-1045-2008	1.483–1.486.

Total Solution in Plasticizers



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Properties

TiNTM is almost colourless and oily liquid, free of foreign materials **TiNTM** is a primary branched monomeric plasticizers for vinylhomopolymer and Copolymer resins. **TiNTM** is suggested for use in those end-use areas where Extreme low volatility is required.

Application

TiNTM provide desirable properties in vinyl applications which require good plasticizer / resin compatibility , low volatility , resistance to extraction by soapy water and good electrical properties.

TiNTM is often a good substitute for polyester polymeric plasticizers as improvements in processing are desired.

TiNTM is a specialty plasticizer that offers permanence, good extraction resistance, superior high temperature performance and excellent electrical properties.

Plasticizing Efficiency N.A.

Compatibility with Secondary Plasticizers N.A.

Packing & Storage **TiNTM** 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 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 **TiNTM**, 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.