

DI ISO NONYL MALEATE (DINM)

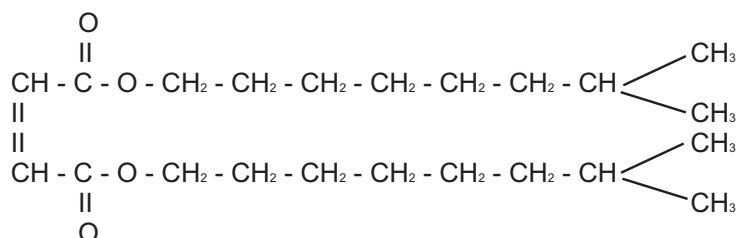
DI ISO NONYL MALEATE (DINM)

Internal plasticizer for PVA ,Styrene & Acrylates

Chemical Nature

Maleic acid ester of C₉alcohol

Chemical Name	:-	DI ISO NONYL Maleate
Trade Name	:-	DINM
Molecular Formula	:-	C ₂₂ H ₄₀ O ₄
Molecular Weight	:-	268
Molecular Structure	:-	C ₉ H ₁₉ OOCCH : CHCOOC ₉ H ₁₉



CAS Number	:-
UN. NO	:-
EINECS NO	:-

Specification

Characteristics	Unit	Test Method	Value
Colour	HU	ASTM-D-1045-86	40 max.
Volatile Loss (130°C/3 Hrs)	wt. %	KLJTM	0.20max.
Ester Value	mg KOH/g	ASTM-D-1045-86	304 ± 3
Acidity	wt. %	ASTM-D-1045-86	0.020 max.
Moisture	wt. %	ASTM-E-203	0.10 max.
Specific Gravity (27°C)	-	ASTM-D-1045-86	0.9317±0.003.
Ester content	wt. %	ASTM-D-1045-86	99.00 min.
Heat Stability (180°C/2 Hrs)	HU	ISI-9591-96	50 HU.
Acidity after heat treatment	wt. %	ASTM-D-1045-86	0.04.
Plasticizing Esters by GC	% by area	KLJTM	99.00 min.

Typical Properties

Boiling Point @ 10 mmHG	°C	Lit	Around 212.
Pour point	°C	Lit	-87.
Viscosity at 20°C	cp	KLJTM	19 ± 1.5.
Flash Point (COC)	°C	KLJTM	184.
Refractive Index (27°C)	--	ASTM-D-1045-86	1.4577±0.004.

Total Solution in Plasticizers



DI ISO NONYL MALEATE (DINM)



Properties

DINM is clear, colourless oily liquid with characteristic " ester " odour, it is not miscible with water but soluble in organic solvents.

Application

DINM is an unsaturated reactive ester. It readily copolymerizes with vinyl acetate, vinyl chloride, acrylates and styrene. The Size of the DOM molecule reduces crystallinity and provide permanent internal plasticization.

DINM finds wide usage in emulsion paint systems, paper and textile coating, adhesives, oil additives and surfactants.

DINM is a colourless, low viscosity liquid and is shipped without inhibitor. Its high purity allows extended shelf life.

Packing & Storage

TOTM 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 12 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 DINM, 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.

[Total Solution in Plasticizers](#)