



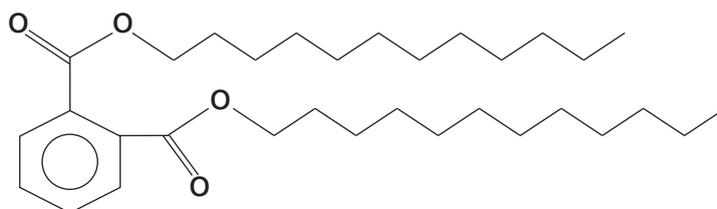
KANATOL - 1212

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Primary plasticizer for PVC and PVC copolymers

Chemical Nature Phthalic acid esters of C₁₂ alcohols

Chemical Name	:-	Di-Do-Decyl Phthalate
Trade Name	:-	KANATOL - 1212
Molecular Formula	:-	C ₃₂ H ₅₄ O ₄
Molecular Weight	:-	502.77
Molecular Structure	:-	C ₆ H ₄ (COOC ₁₂ H ₂₅ COOC ₁₂ H ₂₅)



CAS Number	:-	2432-90-8
UN. NO.	:-	
EINECS NO.	:-	219-415-5

Specification	Characteristics	Unit	Test Method	Value
	Colour	HU	ASTM-D-1045-08	40 HU max.
	Volatile Loss (130°C/3Hrs)	wt.%	KLJTM	0.10max.
	Ester Value	mg KOH/g	ASTM-D-1045-08	220-226
	Acidity	wt. %	ASTM-D-1045-08	0.020 max.
	Moisture	wt. %	ASTM-E-203-08	0.10 max.
	Specific Gravity (27°C)	-	ASTM-D-1045-08	0.939-0.945
	Ester content	wt. %	ASTM-D-1045-08	99.50min.
	Heat Stability (180°C/2Hrs)	HU	ISI-9591-03	No Change
	Acidity after heat treatment	wt. %	ASTM-D-1045-08	0.04
	Plasticizing Esters by GC	%by area	KLJTM	99.50min.
	Residual alcohol	%by area	KLJTM	0.20 max.
	Typical Properties			
	Boiling Point	°C	(1 torr)	256-257
	Freezing/Melting Point	°C		21-23
	Flash Point (COC)	°C	KLJTM	>79
	Refractive Index (27°C)		ASTM-D-1045-86	1.477-1.483

Total Solution in Plasticizers



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Properties

K-1212 is a clear, colourless and odourless liquid, free of foreign materials and is soluble in most organics solvent and is slightly soluble in water but soluble in alcohols, hexane etc. and is miscible and compatible with all monomeric plasticizers of PVC compounding.

K-1212 is a longer chain aliphatic plasticizer, having least migration & least volatile loss, imparting very High Elasticity.

Application

K-1212 is a primary plasticizer for soft PVC products and is recommended to be used in very high temperature wires and cable. A good choice for availing elasticity with very least migration due to its structure.

Plasticizing Efficiency

N. A.

Compatibility with Secondary Plasticizers

Very limited in comparison of DIDP

Packing & Storage

K-1212 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 **K-1212**, 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 product.

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