



KANATOL - 901

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Primary plasticizer for PVC and PVC copolymers

Chemical Nature	Phthalate Ester of Higher alcohols		
Chemical Name	:-	Higher Phthalates	
Trade Name	:-	KANATOL-901	
Molecular Formula	:-	$C_{26}H_{42}O_4$	
Molecular Weight	:-	418	
Molecular Structure	:-	$C_6H_4(COOC_9H_{19})_2$	
CAS Number	:-	NA	
UN. NO	:-	NA	
EINECS NO	:-	NA	

Specification	Characteristics	Unit	Test Method	Value
	Colour	HU	ASTM-D-1045-2008	20 max.
	Volatile Loss (130°C/3 Hrs)	wt. %	KLJTM	0.10max.
	Ester Value	mg KOH/g	ASTM-D-1045-2008	265 – 270.
	Acidity	wt. %	ASTM-D-1045-2008	0.010 max.
	Moisture	wt. %	ASTM-E-203-2005	0.10 max.
	Specific Gravity (27°C)	-	ASTM-D-1045-2008	0.970–0.976.
	Ester content	wt. %	ASTM-D-1045-2008	99.50 min.
	Heat Stability (180°C/2 Hrs)	HU	ISI-9591-2003	No Change.
	Acidity after heat treatment	wt. %	ASTM-D-1045-2008	0.03.
	Plasticizing Esters by GC	% by area	KLJTM	99.50 min.
	Residual alcohol	% by area	KLJTM	0.10 max.

Typical Properties

Volume Resistivity	Ohmcm	KLJTM	$1.8 \pm 0.2 \times 10^{11}$
Boiling Point @ 7 mbar	°C	lit.	~251
Pour point	°C	lit.	- 45
Viscosity at 20°C	cp	KLJTM	79±3.
Flash Point	°C	KLJTM	~220
Refractive Index (27°C)	-	ASTM-D-1045-2008	1.484–1.489.

Properties

K-901 is almost colourless and odourless oily liquid, free of foreign materials which is slightly soluble in water (0.285mg/L at 24 °C) but soluble in alcohols, hexane etc. and is miscible and compatible with all the monomeric plasticizers of PVC compounding.

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Application

Around 95% of **K-901** is used in PVC as a plasticizer. More than half of the remaining 5% is used in the production of polymers other than PVC (e.g. rubbers). The remaining **K-901** is used in non-polymer applications including anticorrosion paints, anti-fouling paints, lacquers, inks, adhesives and sealants.

K-901 is a monomeric primary plasticizer of medium molecular weight and fine performance. It has been developed to fulfill the need for an economical plasticizer in formulations which require very low volatility and good permanence characteristics. This product is widely used in vinyl compounds including wires, cables and plastisols.

Plasticizing Efficiency

1.06

Compatibility with Secondary Plasticizers

Limited in comparison of DOP.

Packing & Storage

K-901 is packed in 200/225 kg iron drum / HDPE drum, 20 - 22 fcl flexitank or in road tanker. It is stored in tightly closed containers 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 **K-901**, 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.

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