



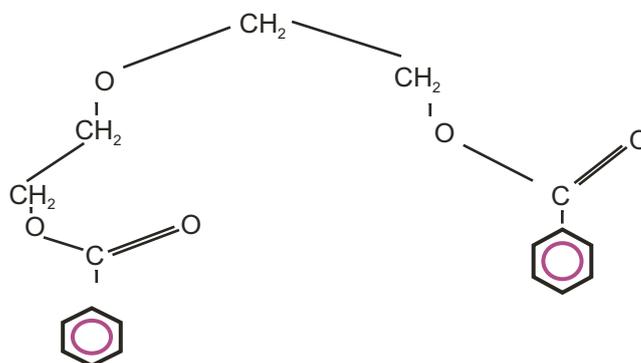
KANATOL - DGB

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Primary plasticizer for PVC and PVC copolymers

Chemical Nature

Benzoic acid ester of Di ethylene glycol
 Chemical Name :- DIETHYLENE GLYCOL DIBENZOATE
 Trade Name :- KANATOL- DGB
 Molecular Formula :- $C_{18}H_{18}O_5$
 Molecular Weight :- 314
 Molecular Structure :- $(C_6H_5COOCH_2CH_2)_2O$

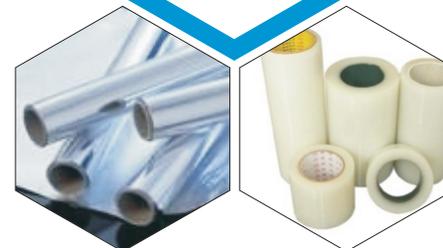


CAS Number :- 120-55-8
 UN. NO :-
 EINECS NO :- 204-407-6

Specification

Characteristics	Unit	Test Method	Value
Colour	HU	ASTM-D-1045-86	100 max.
Volatile Loss (130°C/3Hrs)	wt. %	KLJTM	0.15 max.
Ester Value	mg KOH/g	ASTM-D-1045-86	346-356
Acidity	wt. %	ASTM-D-1045-86	0.10 max.
Moisture	wt. %	ASTM-E-203	0.10 max.
Specific Gravity (27°C)	-	ASTM-D-1045-86	1.165–1.170
Ester content	wt. %	ASTM-D-1045-86	98.00 min.
Heat Stability (180°C/2Hrs)	HU	ISI-9591-96	No Change
Acidity after heat treatment	wt. %	ASTM-D-1045-86	0.3
Plasticizing Esters by GC	%by area	KLJTM	99.00 min.
Residual Alcohol	%by area	KLJTM	0.10 max.

Total Solution in Plasticizers



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Typical Properties

Boiling Point @ 7 mbar	°C	lit.	240
Pour point	°C	lit.	>16
Viscosity at 20°C	cp	KLJTM	86-90
Flash Point	°C	KLJTM	199
Refractive Index (27°C)	--	ASTM-D-1045-86	1.517–1.523

Properties

KANATOL-DGB a glycol benzoate ester, is a clear liquid with chemically stable properties and high boiling point. It is slight soluble in water and very soluble in polymers.

Application

It is used as a has an excellent compatibility with polyvinyl acetate and polyvinyl chloride, it is used as a plasticizer for PVA homopolymer and copolymer emulsions and as well as for PVC coating , food packing adhesives and paints. It can be used as a softener in the field of cosmetics.

Plasticizing Efficiency

0.96

Compatibility with Secondary Plasticizers

Good in comparison of DOP.

Packing & Storage

KANATOL-DGB 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 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 **KANATOL-DGB**, 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.

Total Solution in Plasticizers