

## KANATOL - DPGB 50

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### Primary plasticizer for PVC and PVC copolymers

#### Chemical Nature

Benzoic acid ester of mixed glycol

Chemical Name :- DPGDB (50)  
Trade Name :- KANATOL - DPGB 50  
Molecular Formula :- NA  
Molecular Weight :- 328  
Molecular Structure :- NA

Chemical name	Concentration	Additional Identification
Di -Propylene Glycol DiBenzoate	44 - 56%	CAS Number : 27138-31-4
Di - Ethylene Glycol DiBenzoate	44 - 56%	CAS Number : 120-55-8

UN. NO :-  
EINECS NO :- 248-258-5 / 204-407-6

#### Specification

#### Characteristics

#### Unit

#### Test Method

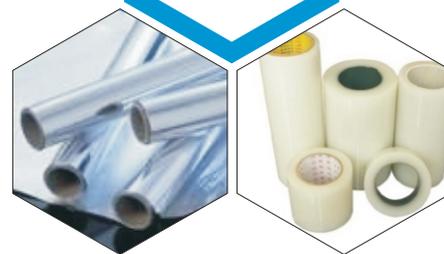
#### Value

Colour	HU	ASTM-D-1045-08	100 max.
Volatile Loss (130°C/3Hrs)	wt. %	KLJTM	0.15 max.
Ester Value	mg KOH/g	ASTM-D-1045-08	339-345
Acidity	wt. %	ASTM-D-1045-08	0.10 max.
Moisture	wt. %	ASTM-E-203-08	0.10 max.
Specific Gravity (27°C)	-	ASTM-D-1045-08	1.143–1.149
Ester content	wt. %	ASTM-D-1045-08	99.50 min.
Heat Stability (180°C/2Hrs)	HU	ISI-9591-03	125 HU
Acidity after heat treatment	wt. %	ISI-9591-03	0.30
Plasticizing Esters by GC	%by area	KLJTM	99.50 min.
Residual Alcohol	%by area	KLJTM	0.10 max.

#### Typical Properties

Boiling Point @ 1.5 mbar	°C	lit.	231.
Pour point	°C	lit.	-21.
Viscosity at 25°C	cp	KLJTM	100±3.
Flash Point (COC)	°C	KLJTM	>199
Refractive Index (27°C)	--	ASTM-D-1045-08	1.517–1.523.

Total Solution in Plasticizers



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### Properties

**K-DPGB 50** is a mixed glycol benzoate ester, is clear liquid with chemically stable properties and high boiling point. It is slight soluble in water and very soluble in polymers.

### Application

**K -DPGB 50** is a versatile monomeric plasticizer. It functions very well in several application areas, it is primarily known for its exceptional utility as a plasticizer for flexible PVC & polyvinyl acetate adhesives. Its compatibility with polyvinyl acetate emulsions allows the tailoring of adhesive systems - with excellent wet tack, set times and open times.

**K -DPGB 50** is also an efficient plasticizer in acrylic latex caulk formulations. Acrylic Latex caulks containing **K-DPGB 50** are stable with the cured caulk showing good adhesion characteristics. **K-DPGB 50** is a high solvating polyvinyl chloride plasticizer displaying utility in plastisol and dry blended vinyl formulations. Inherent excellent solvating characteristics allow fast, lower temperature processing of vinyl/co-vinyl compositions. After incorporated, has excellent stain and extraction resistance to aliphatic solvents. Its wide range of compatibility with polymeric substances suggests use potential in other applications like EVA/PVAc water based adhesives. As a solvent, diluent and fixative by the perfumers.

### Plasticizing Efficiency

N.A.

### Compatibility with Secondary Plasticizers

Good in comparison of DOP.

### Packing & Storage

**K-DPGB 50** is packed in 200/225 kg iron drum / HDPE drum, 20 - 22 fcl flexi tank or in road tanker. It is stored in tightly closed container, in a cool, dry, ventilated area, isolated from incompatible substance.

### 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-DPGB 50**, 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