



**KLJ GROUP**  
SINCE 1967



**Corporate Office:**

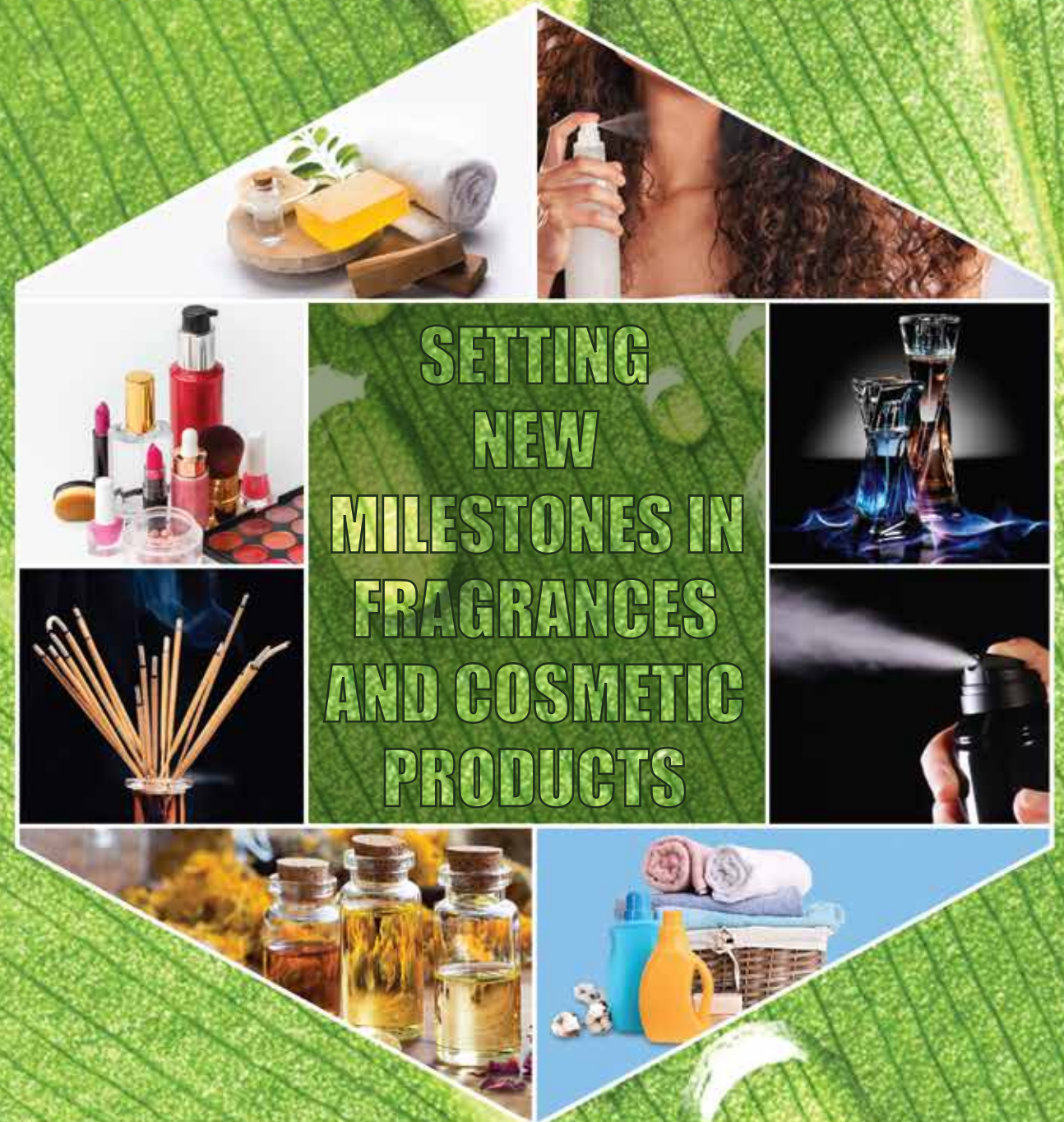
KLJ House, 8A, Shivaji Marg, Najafgarh Road, New Delhi-110 015, India  
Tel.: +91 11 41427427/28/29 | Email: delhi@kljindia.com

**Branch Offices:**

**Mumbai** : +91 22 61830000 mumbai@kljindia.com  
**Chennai** : +91 44 42383622 chennai@kljindia.com  
**Kolkata** : +91 33 22823851 kolkata@kljindia.com  
**Ahmedabad** : +91 9289590026 ahmedabad@kljindia.com

**International Offices:**

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**SETTING  
NEW  
MILESTONES IN  
FRAGRANCES  
AND COSMETIC  
PRODUCTS**

*... sustaining life with natural footprints*

#23-002/FRAGRANCE/FEB

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**SOLUTIONS FOR FRAGRANCE, FLAVOUR & COSMETIC INDUSTRY**

## PLASTICIZERS

Trade Name	Unit	Test Method	KANATOL 200	KANATOL 3200C	KANATOL 8A	KANATOL 800 (S)	KANATOL 8080 (S)	KANATOL 2A
Properties			Di Ethyl Phthalate	Tri Ethyl Citrate	Di Octyl Adipate	Di 2 Ethyl Hexyl Phthalate (S)	Bis 2 Ethyl Hexyl Terephthalate (S)	Di Ethyl Adipate
Appearance	NA	Visual	Water White Clear Liquid					
Colour (Max.)	Hazen	ASTM D 1045-08	20	40	30	15	20	40
Specific Gravity at 27°C	NA	ASTM D 1045-08	1.117±0.003	1.137±0.003	0.923±.003	0.983±0.003	0.983±0.003	1.005±0.003
Refractive Index at 27°C	NA	ASTM D 1045-08	1.500±0.003	1.445±0.003	1.487±0.003	1.486±0.003	1.487±0.003	1.427±0.003
Volatile Loss at 130°C for 3 Hours (Max.)	% by mass	KLJ TM	0.2 (at 110°C for 1 Hr.)	0.30 (at 110°C for 1 Hr.)	0.10	0.05	0.10	0.3 (at 110°C for 1 Hr.)
Moisture Content (Max.)	% by mass	ASTM E 203-08	0.20	0.30	0.10	0.05	0.10	0.25
Acidity as Acid (Max.)	% by mass	ASTM D 1045-08	0.02	0.02	0.02	0.00	0.01	1.00 (AV)
Heat Stability at 180°C for 2 Hours	Hazen	IS 9591:2013	35 (at 150°C for 2 Hrs.)	55 (at 150°C for 2 Hrs.)	40	No Change	No Change	-
Acidity After Heat Treatment at 180°C for 2 Hours (Max.)	% by mass	IS 9591:2013	0.05 (at 150°C for 2 Hrs.)	0.03 (at 150°C for 2 Hrs.)	0.04	0.02	0.03	-
Ester Value	mg KOH/gm	ASTM D 1045-08	503±3	591±3	303±3	287±3	287±3	555±3
Ester Content (Min.)	% by weight	ASTM D 1045-08	99.5	99.0	99.5	99.9	99.5	99.0
Plasticizing Ester By GLC (Min.)	% by area	KLJ TM	99.5	99.0	99.5	99.9	99.5	99.0
Residual Alcohol (Max.)	% by area	KLJ TM	0.02	0.05	0.10	0.03	0.10	0.02
Viscosity at 20°C	cPs	KLJ TM	9-15	-	12-18 (at 25°C)	79-85	60-66	-
Boiling Point at Atmospheric Pressure	°C	IS 5298:2005	298	-	335	386	400	-
Boiling Point at Reduced Pressure	°C	IS 5298:2005	-	-	-	231 at 7 mmHg	-	-
REACH Compliance	Y/N	-	YES	YES	YES	NO	YES	YES

## APPLICATIONS

Perfumery	Incense Sticks	Colognes
Hair Sprays	Wave Sets	Nail Polish & Enamel Remover
Deodorants	Cellulose Compounds & Paints	Food Additives
Cosmetics	Pharmaceuticals	Alcohol Denaturant
Insecticides & Repellents	Fragrance	Food Contact
Essential Oils	Skin Care	Plastisols
Dry Blending	Bath Oils/Soaps	Fragrance Powders
Varnishes & Paints	Eye Shadow	



## BENZYL

Trade Name	Unit	Test Method	KANABENZ BOH	KANABENZ BCHO	KANABENZ BCL	KANABENZ BBZ	KANABENZ BACE
Properties			Benzyl Alcohol (FR)	Benzaldehyde (Pure)	Benzyl Chloride	Benzyl Benzoate	Benzyl Acetate
Appearance	-	Visual	Clear Liquid	Clear Liquid	Colorless Clear Liquid	Clear Liquid	Colorless Clear Liquid
Colour (Max.)	APHA	Tintometer	10	30	20	-	20
Odor	-	Smell	Faint Floral	Bitter Almond	Sharp Pungent	Faint Sweet Balsamic Oily Herbal	Sweet, Floral, Fruity, Jasmine Fresh
Purity by GLC (Min.)	% by area	KLJ TM	99.7	99.5	99.5	99.5	99.5
Specific Gravity at 25°C	-	ASTM D 1045-86	1.044±0.002	1.043±0.002	1.094±0.002	1.118±0.002	1.053±0.002
Refractive Index at 20°C	-	ASTM D 1045-86	1.539±0.002	-	-	1.565±0.005	1.502±0.003
Benzaldehyde Content (Max.)	%	KLJ TM	0.05	-	-	0.05	0.10
Benzyl Alcohol Content (Max.)	%	KLJ TM	-	-	-	0.10	0.10
Chloride Content - FFC Grade (Max.)	ppm	KLJ TM	-	50	-	-	-
Di Benzyl Ether Content (Max.)	%	KLJ TM	0.10	-	-	-	-
Moisture Content (Max.)	%	Karl Fischer	0.10	-	-	-	0.10
Acid Value (Max.)	mgKOH/g	ASTM D 1045-86	0.10	-	-	1.00	1.00
Low Boiling Imp. by GLC (Max.)	% by area	KLJ TM	-	0.10	0.20	-	-
High Boiling Imp. by GLC (Max.)	% by area	KLJ TM	-	0.40	0.30	-	-
Acidity as Benzoic Acid (Max.)	%	KLJ TM	-	0.50	-	-	-
Freezing Point (Min.)	°C	KLJ TM	-	-	-	18	-

## APPLICATIONS

Fine Fragrance	Cinnamaldehyde	Benzyl Compounds
Perfumery	Incense Sticks	Shampoo
Hexyl Cinnamaldehyde	Cosmetics	Insect Repellent
Decorative Cosmetics	Bath Oils / Soaps	Alpha Amyl Cinnamaldehyde
Preservatives	Rose Crystals	Cleaners & Detergents