



World class plants strategically located in India, Thailand & Qatar having installed capacity of over 665,000 tpa with backward integration for Phthalic Anhydride and Chlorine

One stop Total Solutions provider for all the Plasticizer needs

COMPLETE RANGE OF PLASTICIZERS

Phthalate | Adipate | Trimellitate | Citrate | Stearate | Benzoate | Sebacate | Maleate | Polymeric | ESBO | Chlorinated Paraffins

KANACHLOR CHLORINATED PARAFFIN																
Grades	Unit	Test Method	40 D/AD/ AI/AD1	40 C	42 WH 1	42 WH	42 WAX	45 D/AD/ AI/AD1	45 C	45 KD 5	45 FS	47 WH 1	50 WH	52 D/AD/ AI/AD1	52 C	52 KD 5
Properties																
Colour (Max.)	Hazen	ASTM D 1045-86	60	60	100	200	300	60	60	100	60	250	300	60	60	100
Specific Gravity at 27°C	N/A	ASTM D 1045	1.110±0.020	1.100±0.020	1.180±0.020	1.180±0.020	1.200±0.020	1.200±0.020	1.200±0.020	1.200±0.020	1.180±0.020	1.210±0.030	1.280±0.020	1.280±0.020	1.300±0.020	1.280±0.020
Refractive Index at 27°C	N/A	ASTM D 1807	1.483± 0.002	1.483±0.002	1.503±0.002	1.503±0.002	1.506±0.002	1.498±0.002	1.496±0.002	1.498±0.002	1.491±0.002	1.503±0.003	1.520±0.003	1.509±0.002	1.510±0.002	1.510±0.002
Volatile Loss at 180°C for 4 Hours (Max.)	% by weight	KLJ/QCD/WIN/26	3.50	9.00	2.50	2.00	0.80	3.00	7.00	6.50	9.00	1.40	0.80	1.50	3.50	4.00
Chlorine Content	% by weight	ISI 1448-77	40±2.0	40±2.0	42±2.0	42±2.0	42±2.0	45±2.0	45±2.0	45±2.0	45±2.0	47±2.0	50±2.0	52±2.0	52±2.0	52±2.0
Free Mineral Acidity (Max.)	% by weight	KLJ/QCD/WIN/24	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Free Chlorine (Max.)	% by weight	ISI 9189-79	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
Viscosity at 27°C	Poise	Brookfield Viscometer ASTM D 445	0.50-1.0	0.30-1.0	10-25	15-40	50-100	2-5	0.50-1.50	2-5	0.3-0.8	15-25	300-800	12-35	5-12	10-25
Heat Stability at 180°C for 20 Minutes (Max.)	Colour	KLJ/QCD/WIN/28	Yellow	Yellow	Light Brown	Brown	Brown	Yellow	Yellow	Brown	Dark Yellow	Light Brown	Brown	Yellow	Yellow	Brown
Thermal Stability at 175°C for 4 Hours (Max.)	% by weight	KLJ/QCD/WIN/27	0.10	0.10	0.40	0.40	0.20	0.10	0.10	0.20	0.20	0.20	0.40	0.10	0.10	0.20
pH Value (Min.)	-	KLJ/QCD/WIN/29	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0

Grades	Unit	Test Method	52 FS	58 WH 1	58 D/AD/ AI/AD1	58 C	58 KD 5	58 FS	62 D/AD/ AI/AD1	62 C	62 KD 5	62 FS	65 D/AD/ AI/AD1	68 FS	68 D/AD/ AI/AD1	68 C
Properties																
Colour (Max.)	Hazen	ASTM D 1045-86	60	250	60	60	100	60	100	60	100	60	150	60	150	100
Specific Gravity at 27°C	N/A	ASTM D 1045	1.300±0.020	1.330±0.030 (at 60°C)	1.360±0.020	1.350±0.020	1.350±0.020	1.350±0.020	1.400±0.030	1.400±0.030	1.400±0.030	1.400±0.030	1.460±0.030	1.510±0.040	1.500±0.040 (at 50°C)	1.540±0.040 (at 50°C)
Refractive Index at 27°C	N/A	ASTM D 1807	1.506±0.002	1.530±0.003	1.518±0.002	1.515±0.002	1.516±0.002	1.513±0.003	1.526±0.003	1.524±0.003	1.525±0.003	1.520±0.003	-	1.531±0.004	N/A	N/A
Volatile Loss at 180°C for 4 Hours (Max.)	% by weight	KLJ/QCD/WIN/26	6.00	0.60	1.20	2.00	3.50	4.00	0.90	1.50	3.00	3.50	0.50	2.00	0.50	1.00
Chlorine Content	% by weight	ISI 1448-77	52±2.0	58±2.0	58±2.0	58±2.0	58±2.0	58±2.0	62±2.0	62±2.0	62±2.0	62±2.0	65±2.0	68±2.0	66±2.0	68±2.0
Free Mineral Acidity (Max.)	% by weight	KLJ/QCD/WIN/24	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Free Chlorine (Max.)	% by weight	ISI 9189-79	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
Viscosity at 27°C	Poise	Brookfield Viscometer ASTM D 445	1-4	30-50 (at 60°C)	125-400	15-35	60-200	4-8	300-1200	60-150	200-600	15-40	100-500	100-500 (at 50°C)	300-1500 (at 50°C)	80-300 (at 50°C)
Heat Stability at 180°C for 20 Minutes (Max.)	Colour	KLJ/QCD/WIN/28	Dark Yellow	Light Brown	Yellow	Yellow	Brown	Dark Yellow	Dark Yellow	Yellow	Brown	Dark Yellow	Light Brown	Dark Yellow	Brown	Light Brown
Thermal Stability at 175°C for 4 Hours (Max.)	% by weight	KLJ/QCD/WIN/27	0.20	0.20	0.10	0.10	0.20	0.20	0.10	0.10	0.20	0.20	0.10	0.20	0.20	0.20
pH Value (Min.)	-	KLJ/QCD/WIN/29	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0

RoHS: All above products are complying to RoHS requirements.

Note: Specific grades of CPW can be made on request.

The above properties are inductive and represent the values as tested in our laboratories. There is no guarantee/warranty whatsoever. Suitability of the product for particular application may be verified before use.

Packing Options : All the above liquid products are available in Plastic Drums (200 & 225 ltrs.), Steel Drums, Intermediate Bulk Containers (IBC's/Totes), Flexi Tanks & ISO Tanks.





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KLJ PLASTICIZER/JAN/2026

TRUST BUILT ON PERFORMANCE

...sustaining life with natural footprints



KLJ GROUP
SINCE 1967





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PLASTICIZERS



PHTHALATES

Trade Name	Unit	Test Method	KANATOL 1212	KANATOL 1210	KANATOL 1001	KANATOL 1000L	KANATOL 1010	KANATOL 900	KANATOL 800 (FG)	KANATOL 800	KANATOL 1056
Properties			Di Do Decyl Phthalate	Di Un Decyl Phthalate	Di Iso Decyl Phthalate	Di Decyl Phthalate (Linear)	Di Propyl Heptyl Phthalate	Di Iso Nonyl Phthalate	Di 2 Ethyl Heptyl Phthalate	Di 2 Ethyl Heptyl Phthalate	
Appearance	NA	Visual	Water white clear liquid								
Colour (Max.)	Hazen	ASTM D 1045-08	40	50	20	20	20	20	15	20	20
Specific Gravity at 27°C	NA	ASTM D 1045-08	0.942±0.003	0.952±0.003	0.963±0.003	0.959±0.003	0.961±0.003	0.973±0.003	0.983±0.003	0.983±0.003	0.983±0.003
Refractive Index at 27°C	NA	ASTM D 1045-08	1.480±0.003	1.482±0.003	1.485±0.003	1.486±0.003	1.485±0.003	1.486±0.003	1.486±0.003	1.486±0.003	1.486±0.003
Volatile Loss at 130°C for 3 Hours (Max.)	% by mass	KLJTM	0.10	0.10	0.10	0.10	0.10	0.10	0.05	0.10	0.15
Moisture Content (Max.)	% by mass	ASTM E 203-08	0.10	0.10	0.10	0.10	0.10	0.10	0.05	0.10	0.10
Acidity as Acid (Max.)	% by mass	ASTM D 1045-08	0.02	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.01
Heat Stability at 180°C for 2 Hours	Hazen	IS 9591:2013	No Change	No Change	No Change	No Change	No Change	No Change	No Change	No Change	No Change
Acidity After Heat Treatment at 180°C for 2 Hours (Max.)	% by mass	IS 9591:2013	0.04	0.03	0.03	0.03	0.03	0.03	0.02	0.03	0.03
Ester Value	mg KOH/gm	ASTM D 1045-08	223±3	236±3	251±3	251±3	251±3	267±3	287±3	287±3	287±3
Ester Content (Min.)	% by weight	ASTM D 1045-08	99.5	99.5	99.5	99.5	99.5	99.5	99.9	99.5	99.5
Plasticizing Ester By GLC (Min.)	% by area	KLJTM	99.5	99.5	99.5	99.5	99.5	99.5	99.9	99.5	99.5
Residual Alcohol (Max.)	% by area	KLJTM	0.20	0.20	0.10	0.10	0.10	0.10	0.03	0.10	0.10
Viscosity at 20°C	cPs	KLJTM	-	118-124	105-111	44-50	117-123	76-82	79-85	79-85	71-77
Boiling Point at Atmospheric Pressure	°C	IS 5298:2005	-	-	400	-	-	-	386	386	-
Boiling Point at Reduced Pressure	°C	IS 5298:2005	-	-	-	261 at 5 mmHg	251-254 at 7 mmHg	250 at 7 mmHg	231 at 7 mmHg	231 at 7 mmHg	-
REACH Compliance	Y/N	-	YES	YES	YES	YES	YES	YES	NO	NO	NO

Trade Name	Unit	Test Method	KANATOL 8461	KANATOL 7720	KANATOL 470	KANATOL 400 M	KANATOL 400 N	KANATOL 400 I	KANATOL 200	KANATOL 100
Properties			Di Cyclo Hexyl Phthalate		Benzyl Butyl Phthalate	Di Butyl Phthalate (M)	Di n Butyl Phthalate	Di Iso Butyl Phthalate	Di Ethyl Phthalate	Di Methyl Phthalate
Appearance	NA	Visual	Water white clear liquid							
Colour (Max.)	Hazen	ASTM D 1045-08	50 (10% Acetone)	40	40	20	20	20	20	20
Specific Gravity at 27°C	NA	ASTM D 1045-08	-	0.962±0.003	1.118±0.003	1.038±0.003	1.043±0.003	1.038±0.003	1.117±0.003	1.486±0.003
Refractive Index at 27°C	NA	ASTM D 1045-08	-	1.481±0.003	1.534±0.003	1.492±0.003	1.492±0.003	1.490±0.003	1.500±0.003	1.512±0.003
Volatile Loss at 130°C for 3 Hours (Max.)	% by mass	KLJTM	-	0.20	0.10	0.1	0.1	0.1	0.2	0.5
						(at 110°C for 2 Hrs.)	(at 110°C for 2 Hrs.)	(at 110°C for 2 Hrs.)	(at 110°C for 1 Hr.)	(at 110°C for 1 Hr.)
Moisture Content (Max.)	% by mass	ASTM E 203-08	-	0.10	0.15	0.10	0.10	0.10	0.20	0.20
Acidity as Acid (Max.)	% by mass	ASTM D 1045-08	0.08	0.2 (AV)	0.02	0.01	0.01	0.01	0.02	0.02
Heat Stability at 180°C for 2 Hours	Hazen	IS 9591:2013	-	50	No Change	No Change (at 150°C for 2 Hrs.)	No Change (at 150°C for 2 Hrs.)	No Change (at 150°C for 2 Hrs.)	35 (at 150°C for 2 Hrs.)	35 (at 150°C for 2 Hrs.)
Acidity After Heat Treatment at 180°C for 2 Hours (Max.)	% by mass	IS 9591:2013	-	0.30 (Acid Value)	0.05	0.03 (at 150°C for 2 Hrs.)	0.03 (at 150°C for 2 Hrs.)	0.03 (at 150°C for 2 Hrs.)	0.05 (at 150°C for 2 Hrs.)	0.05 (at 150°C for 2 Hrs.)
Ester Value	mg KOH/gm	ASTM D 1045-08	-	269±3	350±6	385±8	404±3	402±3	503±3	575±3
Ester Content (Min.)	% by weight	ASTM D 1045-08	98.0	99.5	99.0	99.5	99.5	99.5	99.5	99.5
Plasticizing Ester By GLC (Min.)	% by area	KLJTM	98.0	99.5	99.0	99.5	99.5	99.5	99.5	99.5
Residual Alcohol (Max.)	% by area	KLJTM	-	0.10	0.20	0.05	0.05	0.05	0.02	0.02
Viscosity at 20°C	cPs	KLJTM	-	29-35	37-43 (at 25°C)	20-26	18-24	32-38	9-15	13-18
Boiling Point at Atmospheric Pressure	°C	IS 5298:2005	-	-	-	-	340	327	298	282
Boiling Point at Reduced Pressure	°C	IS 5298:2005	-	-	-	-	-	-	-	-
REACH Compliance	Y/N	-	YES	NO	NO	NO	NO	NO	YES	YES

RoHS: All above products are complying to RoHS requirements.

REACH: A number of REACH registered/pre-registered products available.

Applications: Wire & Cables | Leather Cloth | Vinyl Flooring | Medical Equipment | Non-Toxic Food Packaging | Footwear | Flexible PVC Films | Adhesives | Perfumery | Automobile Parts | Rubber Belts | Flexible Pipes and Tubings | Lubricants & Metal Working Fluids | Furniture | Chemical Intermediates, etc.

The above properties are inductive and represent the values as tested in our laboratories. There is no guarantee/warranty whatsoever. Suitability of the product for particular application may be verified before use.

SPECIALITY

Trade Name	Unit	Test Method	KANATOL 3001	KANATOL 3000	KANATOL TM 8-10 (L)	KANATOL TM 8-10	KANATOL 3900	KANATOL 3800	KANATOL HT9	KANATOL 3400AC	KANATOL 3400C	KANATOL 3430E	KANATOL 3200C
Properties			Tri Iso Decyl Tri Mellitate	Tri Propyl Heptyl Tri Mellitate	Tri Octyl Decyl Tri Mellitate (Linear)	Tri Octyl Decyl Tri Mellitate	Tri Iso Nonyl Tri Mellitate	Tri Octyl Tri Mellitate		Acetyl Tri Butyl Citrate	Tri Butyl Citrate		Tri Ethyl Citrate
Appearance	NA	Visual	Water white clear liquid										
Colour (Max.)	Hazen	ASTM D 1045-08	50	40	100	100	50	50	40	40	50	30	40
Specific Gravity at 27°C	N/A	ASTM D 1045-08	0.963±0.003	0.965±0.003	0.977±0.003	0.977±0.003	0.978±0.003	0.989±0.003	0.969±0.003	1.051±0.003	1.042±0.003	0.995±0.003	1.137±0.003
Refractive Index at 27°C	N/A	ASTM D 1045-08	1.485±0.003	1.483±0.003	1.487±0.003	1.487±0.003	1.485±0.003	1.487±0.003	1.488±0.003	1.441±0.003	1.442±0.003	1.449±0.003	1.445±0.003
Volatile Loss at 130°C for 3 Hours (Max.)	% By Mass	KLJTM	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.30	0.40	0.60	0.30
Moisture Content (Max.)	% By Mass	ASTM E 203-08	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.25	0.30	0.60	0.30
Acidity as Acid (Max.)	% By Mass	ASTM D 1045-08	0.03	0.03	0.02	0.02	0.03	0.03	0.15 (AV)	0.02	0.02	0.60 (AV)	0.02
Heat Stability at 180°C for 2 Hours	Hazen	IS 9591:2013	No Change	65	No Change	No Change	65	65	No Change	No Change (at 150°C for 2 Hrs.)	No Change (at 150°C for 2 Hrs.)	No Change (at 150°C for 2 Hrs.)	55 (at 150°C for 2 Hrs.)
Acidity After Heat Treatment at 180°C for 2 Hours (Max.)	% by mass	IS 9591:2013	-	-	0.02	0.05	0.05	0.05	-	0.03	0.03	-	0.03
Ester Value	mg KOH/gm	ASTM D 1045-08	270±3	269±3	277±3	277±3	287±3	306±3	271±3	559±3	468±3	389±3	591±3
Ester Content (Min.)	% by weight	ASTM D 1045-08	99.0	99.5	99.0	99.0	99.0	99.0	99.5	99.0	99.0	99.0	99.0
Plasticizing Ester By GLC (Min.)	% by area	KLJTM	99.0	99.5	99.0	99.0	99.0	99.0	99.5	99.0	99.0	99.0	99.0
Residual Alcohol (Max.)	% by area	KLJTM	-	-	-	-	0.20	0.10	0.10	-	-	-	0.05
Viscosity at 20°C	cPs	KLJTM	485-495	270-274	107-113	494-500	285-292	271-277	-	32-38	31-37	21-27	-
Boiling Point at Atmospheric Pressure	°C	IS 5298:2005	-	-	-	-	-	-	-	-	-	-	-
Boiling Point at Reduced Pressure	°C	IS 5298:2005	-	-	-	-	300 at 4 mmHg	283 at 13.2 mmHg	-	173 at 5 mmHg	170 at 5 mmHg	-	-
REACH Compliance	%	KLJTM	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES	YES

Trade Name	Unit	Test Method	KANATOL 3200AC	KANATOL 805	KANATOL 405	KANATOL 85	KANATOL 15	KANATOL 45	KANATOL DPG8 50	KANATOL DGB	KANATOL 9449	KANATOL 9090	KANATOL 8080
Properties			Acetyl Tri Ethyl Citrate	Octyl Stearate	n Butyl Stearate	Di Octyl Sebacate	Di Methyl Sebacate	Di n Butyl Sebacate		Di Ethylene Glycol Di Benzoate	Ethylene Glycol Di Benzoate	Di Iso Nonyl Terephthalate	Bis 2 Ethyl Hexyl Terephthalate
Appearance	NA	Visual	Water white clear liquid										
Colour (Max.)	Hazen	ASTM D 1045-08	50	60	60	40	60	50	100	100	50 (10% ACETONE)	20	20
Specific Gravity at 27°C	N/A	ASTM D 1045-08	1.137±0.003	0.858±0.003	0.857±0.003	0.913±0.003	0.993±0.003	0.934±0.003	1.146±0.003	1.168±0.003	-	0.970±0.003	0.983±0.003
Refractive Index at 27°C	N/A	ASTM D 1045-08	1.441±0.003	1.443±0.003	1.447±0.003	1.450±0.003	1.445±0.003	1.445±0.003	1.520±0.003	1.520±0.003	-	1.486±0.003	1.487±0.003
Volatile Loss at 130°C for 3 Hours (Max.)	% By Mass	KLJTM	0.30 (at 110°C for 1 Hr.)	0.20	0.20 (at 110°C for 2 Hrs.)	0.20	0.50 (at 110°C for 1 Hr.)	0.15 (at 110°C for 2 Hrs.)	0.15	0.15	-	0.10	0.10
Moisture Content (Max.)	% By Mass	ASTM E 203-08	0.30	0.10	0.10	0.10	0.25	0.10	0.15	0.15	1.00	0.10	0.10
Acidity as Acid (Max.)	% By Mass	ASTM D 1045-08	0.02	0.50	1.00 (AV)	0.02	0.50 (AV)	0.01	0.10	0.10	0.10	0.01	0.01
Heat Stability at 180°C for 2 Hours	Hazen	IS 9591:2013	65 (at 150°C for 2 Hrs.)	No Change (at 150°C for 2 Hrs.)	No Change (at 150°C for 2 Hrs.)	No Change	75 (at 110°C for 1 Hrs.)	No Change (at 150°C for 2 Hrs.)	125	No Change	-	No Change	No Change
Acidity After Heat Treatment at 180°C for 2 Hours (Max.)	% by mass	IS 9591:2013	0.06 (at 150°C for 2 Hrs.)	-	-	0.03	-	0.03 (at 150°C for 2 Hrs.)	0.30	0.30	-	0.03	0.03
Ester Value	mg KOH/gm	ASTM D 1045-08	706±3	146±3	172±5	263±3	483±3	357±3	342±3	351±3	-	268±3	287±3
Ester Content (Min.)	% by weight	ASTM D 1045-08	99.0	99.5	99.0	99.5	98.0	99.0	99.0	99.0	98.0	99.5	99.5
Plasticizing Ester By GLC (Min.)	% by area	KLJTM	99.0	99.5	99.0	99.5	98.0	99.0	99.0	99.0	98.0	99.5	99.5
Residual Alcohol (Max.)	% by area	KLJTM	0.02	-	-	0.10	0.10	0.10	0.10	0.10	-	0.10	0.10
Viscosity at 20°C	cPs	KLJTM	47-53 (at 25°C)	16-22 (at 25°C)	8-14 (at 25°C)	58-64	6-7	-	97-103 (at 25°C)	85-91	-	80-86	60-66
Boiling Point at Atmospheric Pressure	°C	IS 5298:2005	294	-	343°C	-	287-289	-	-	-	365	-	400
Boiling Point at Reduced Pressure	°C	IS 5298:2005	-	-	-	248 at 5 mmHg	-	-	231 at 1.5 mmHg	240 at 5 mmHg	-	-	-
REACH Compliance	%	KLJTM	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES

RoHS: All above products are complying to RoHS requirements.

REACH: A number of REACH registered/pre-registered products available.

Applications: Wire & Cables | Leather Cloth | Vinyl Flooring | Medical Equipment | Non-Toxic Food Packaging | Footwear | Flexible PVC Films | Adhesives | Perfumery | Automobile Parts | Rubber Belts | Flexible Pipes and Tubings | Paints | Lubricants & Metal Working Fluids | Furniture | Chemical Intermediates, etc.

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SPECIALITY

ADIPATE

Trade Name	Unit	Test Method	KANATOL 4040	KANATOL PA 33	KANATOL 1120	KANATOL 9061	KANATOL 9428	KANATOL 10 A	KANATOL 9A	KANATOL 8A	KANATOL 3A	KANATOL 2A	KANATOL 1A
Properties			Di Butyl Terephthalate					Di Iso Decyl Adipate	Di Iso Nonyl Adipate	Di Octyl Adipate	Di Iso Propyl Adipate	Di Ethyl Adipate	Di Methyl Adipate
Appearance	NA	Visual	Water White Clear Liquid	Water White Clear Liquid				Water White Clear Liquid					
Colour (Max.)	Hazen	ASTM D 1045-08	40	50	20	15	20	40	40	30	25	40	40
Specific Gravity at 27°C	N/A	ASTM D 1045-08	1.044±0.003	1.192±0.003	0.938±0.003	-	0.967±0.005 (at 20°C)	0.915±0.003	0.922±0.003	0.923±0.003	0.960±0.003	1.005±0.003	1.062±0.003
Refractive Index at 27°C	N/A	ASTM D 1045-08	1.502±0.003	1.446±0.003	1.414±0.003	-	1.444±0.003	1.449±0.003	1.452±0.003	1.487±0.003	1.423±1.426	1.427±0.003	1.427±0.003
Volatile Loss at 130°C for 3 Hours (Max.)	% By Mass	KLJ TM	0.10 (at 110°C for 2 Hrs.)	-	-	1.00 (at 110°C for 1 Hr.)	-	0.10	0.10	0.10	0.8 (at 110°C for 1 Hr.)	0.3 (at 110°C for 1 Hr.)	0.3 (at 110°C for 1 Hr.)
Moisture Content (Max.)	% By Mass	ASTM E 203-08	0.	0.20	0.05	0.05	0.10	0.10	0.10	0.10	0.15	0.25	0.40
Acidity as Acid (Max.)	% By Mass	ASTM D 1045-08	0.01	6.00 (AV)	0.02	0.20 (AV)	0.10 (AV)	0.03	0.03	0.02	1.00 (AV)	1.00 (AV)	0.05
Heat Stability at 180°C for 2 Hours	Hazen	IS 9591:2013	No Change (at 150°C for 2 Hrs.)	-	-	-	-	50	50	40	40 (at 150°C for 2 Hrs.)	-	50 (at 150°C for 2 Hrs.)
Acidity After Heat Treatment at 180°C for 2 Hours (Max.)	% by mass	IS 9591:2013	0.03 (at 150°C for 2 Hrs.)	-	-	-	-	0.05	0.05	0.04	-	-	-
Ester Value	mg KOH/gm	ASTM D 1045-08	404±3	-	-	-	271±8	263±3	281±3	303±3	487±3	555±3	640±3
Ester Content (Min.)	% by weight	ASTM D 1045-08	98.0	-	99.0	99.0	97.0	99.0	99.5	99.5	99.5	99.0	99.0
Plasticizing Ester By GLC (Min.)	% by area	KLJ TM	98.0	-	99.0	99.0	97.0	99.0	99.5	99.5	99.5	99.0	99.0
Residual Alcohol (Max.)	% by area	KLJ TM	0.10	-	-	-	-	0.10	0.10	0.10	0.20	0.02	0.02
Viscosity at 20°C	cPs	KLJ TM		3100-4100				24-25	19-25	12-18 (at 25°C)	-	-	-
Boiling Point at Atmospheric Pressure	°C	IS 5298:2005		-	192	195-230	-	-	-	335	-	-	-
Boiling Point at Reduced Pressure	°C	IS 5298:2005		-	-	-	-	239 at 5 mmHg	233 at 5 mmHg	-	-	-	-
REACH Compliance	%	KLJ TM	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES