

# PLASTICIZERS

## PLASTICIZERS (SPECIALITY)

PROPERTIES	GRADE	UNIT	TEST METHOD	TPTM	KANATOL TM 8-10	KANATOL TM 8-10 (L)	KANATOL 3800	KANATOL HT 9	KANATOL 3400 AC	KANATOL 3400 C	KANATOL 3430 E	KANATOL 3200 C
					TRI-OCTYL DECYL TRI- MELLITATE	TRI-OCTYL DECYL TRI- MELLITATE (LINEAR)	TRI-OCTYL TRI- MELLITATE		ACETYL TRI-BUTYL CITRATE	TRI-BUTYL CITRATE		TRIETHYL CITRATE
Appearance			Visual		Water White Clear Liquid							
Colour (Max.)	Hazen	ASTM-D-1045-08	40	100	100	50	40	40	50	30	40	
Specific Gravity at 27°C	N/A	ASTM-D-1045-08	0.965 ± 0.003	0.977 ± 0.003	0.997 ± 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	1.483 - 1.486	1.487 ± 0.003	1.487 ± 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 Hrs. (Max.)	% By Mass	KLJ TM-P-11-92	0.10	0.10	0.10	0.10	0.10	0.30	0.40	0.60	0.30 (at 110°C for 1 Hour)	
Moisture Content (Max.)	% By Mass	ASTM-E-203-08	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	0.02	0.02	0.03	0.15 (AV)	0.02	0.02	0.60 (AV)	0.02	
Acidity after heat treatment at 180°C for 2 Hours (Max.)	% By Mass	ISI-9591-03	—	0.05	0.02	0.05	0.05 (AV)	0.03	0.03	N. A.	0.06	
Heat Stability at 180°C for 2 Hrs.	Colour	ISI-9591-03	65 Hu.	No Change	No Change	65 Hu.	No Change	—	—	—	—	
Heat Stability at 150°C for 2 Hrs.	Colour	ISI-9591-03	—	—	—	—	—	No Change	No Change	No Change	45 Hu.	
Ester Value	mg KOH/gm	ASTM-D-1045-08	269 ± 3	277 ± 3	277 ± 3	306 ± 3	271 ± 3	559 ± 3	468 ± 3	389 ± 3	519 ± 3	
Ester Content (Min.)	% By Weight	ASTM-D-1045-08	99.5	99	99	99	99.5	99	99	99	99	
Plasticizing Esters By GLC (Min.)	% By Area	KLJ TM-P-12-98	99.5	99	99	99	99.5	99	99	99	99	
Viscosity at 20°C	cPs	KLJ TM-P-13-97	—	494 - 500	107 - 113	271 - 277	—	32 - 38	31 - 37	21 - 27	—	
Viscosity at 25°C	cPs	KLJ TM-P-13-97	—	—	—	—	—	—	—	—	35 ± 3	
Boiling Point/Flash Point at Atmospheric Pressure	°C	IS-5298-05	272 ± 2 (FP)	—	—	283°C at 13.2 mbar	—	173°C at 5 mbar	170°C at 1.33 mbar	—	127°C at 1.33 mbar	
REACH Compliance	Y/N		Yes	No	Yes	N. A.	Yes	Yes	Yes	Yes	N. A.	

PROPERTIES	GRADE	UNIT	TEST METHOD	KANATOL 80 S	KANATOL 40 S	KANATOL 8 S	KANATOL DPGB 50	KANATOL DGB	KANATOL 9090	KANATOL 8080 FG	KANATOL B 40
				OCTYL STEARATE	N-BUTYL STEARATE	DI-OCTYL SEBACATE	DPGDB (50)	DI-ETHYLENE GLYCOL DI-BENZOATE	DIHSO-NONYL 1,4 BENZENE DI-CARBOXYLATE	BIS (2 ETHYL HEXYL) 1,4 BENZENE DI-CARBOXYLATE	BIO PLASTICIZER
Appearance			Visual	Water White Clear Liquid							
Colour (Max.)	Hazen	ASTM-D-1045-08	60	60	40	100	100	20	20	40	
Specific Gravity at 27°C	N/A	ASTM-D-1045-08	0.858 ± 0.003	0.857 ± 0.003	0.913 ± 0.003	1.146 ± 0.003	1.168 ± 0.003	0.965 ± 0.003	0.983 ± 0.003	0.925 ± 0.015	
Refractive Index at 27°C	N/A	ASTM-D-1045-08	1.443 ± 0.003	1.447 ± 0.003	1.450 ± 0.003	1.520 ± 0.003	1.520 ± 0.003	1.486 ± 0.003	1.487 ± 0.003	1.453 ± 0.003	
Volatile Loss at 130°C for 3 Hrs. (Max.)	% By Mass	KLJ TM-P-11-92	0.20	0.20 (110°C for 2 Hrs.)	0.20	0.15	0.15	0.10	0.10	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	0.15	
Acidity as Acid (Max.)	% By Mass	ASTM-D-1045-08	0.50	0.02	0.02	0.10	0.10	0.01	0.01	2.00 (AV)	
Acidity after heat treatment at 180°C for 2 Hours (Max.)	% By Mass	ISI-9591-03	N. A.	N. A.	0.03	0.30	0.30	0.03	0.03	4.00 (AV)	
Heat Stability at 180°C for 2 Hrs.	Colour	ISI-9591-03	No Change (at 150°C)	No Change (at 150°C)	No Change	125 Hu.	No Change	No Change	No Change	100 Hu.	
Ester Value	mg KOH/gm	ASTM-D-1045-08	143 ± 3	172 ± 5	263 ± 3	342 ± 3	351 ± 3	268 ± 3	287 ± 3	187 ± 3	
Ester Content (Min.)	% By Weight	ASTM-D-1045-08	99.5	99	99.5	99.5	99	99.5	99.5	99.9	
Plasticizing Esters By GLC (Min.)	% By Area	KLJ TM-P-12-98	99.5	99	99.5	99.5	99	99.5	99.5	99.9	
Viscosity at 20°C	cPs	KLJ TM-P-13-97	—	—	58 - 64	—	85 - 91	80 - 86	60 - 66	15 ± 3	
Viscosity at 25°C	cPs	KLJ TM-P-13-97	16 - 22	8 - 14	—	100 ± 3	—	—	—	—	
Boiling Point/Flash Point at Atmospheric Pressure	°C	IS-5298-05	—	343	248°C at 5 mmHg	231°C at 1.5 mbar	240°C at 5 mmHg	—	400°C	N. A.	
Oxirane Value (Min.)	—	HBR Method	—	—	—	—	—	—	—	—	
Iodine Value (Max.)	—	Wij's Method	—	—	—	—	—	—	—	—	
REACH Compliance	Y/N		Yes	Yes	Yes	Yes	Yes	Yes	Yes	N. A.	

RoHS : All above products are complying to RoHS requirements.

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

APPLICATIONS : Wires & 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.

The above properties are indicative 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.

◆ New Launch  
● Food Contact Approved