PHTHALATE PLASTICIZERS

PRODUCT SPECIFICATION	UNIT	TEST METHOD	KANATOL 1001	KANATOL 1012	KANATOL 1000(L)	KANATOL 1010	KANATOL 900	KANATOL 901	KANATOL 800 (FG) FOOD GRADE	KANATOL 800	KANATOL 1056	KANATOL 7720	KANATOL 555	KANATOL 400 (M)	KANATOL 400 N	KANATOL 400 I	KANATOL 200	KANATOL 100
			DI-ISO-DECYL PHTHALATE			BIS-2 PROPYLHEPTYL PHTHALATE	DI-ISO-NONYL PHTHALATE		DI-2 ETHYL HEXYL PHTHALATE	DI-2 ETHYL HEXYL PHTHALATE				DI-BUTYL PHTHALATE	DI-n-BUTYL PHTHALATE	DI-ISO-BUTYL PHTHALATE	DI-ETHYL PHTHALATE	DI-METHYL PHTHALATE
APPEARANCE		PHYSICAL	WATER WHITE CLEAR LIQUID															
COLOUR (Max.)	HAZEN	ASTM-D-1045-86	20	50	20	20	20	20	15	20	20	40	20	20	20	20	20	20
SPECIFIC GRAVITY at 27°C		ASTM-D-1045-86	0.960 - 0.967	0.956 - 0.965	0.957 - 0.961	0.957 - 0.965	0.973 ± 0.003	0.970 - 0.976	0.983 ± 0.003	0.983 ± 0.003	0.983 ± 0.003	0.958 ± 0.002	1.030 ± 0.005	1.030 - 1.041	1.043 ± 0.002	1.035 ± 0.005	1.117 ± 0.003	1.185 ± 0.005
REFRACTIVE INDEX at 27°C		ASTM-D-1045-86	1.4845 ± 0.0015	1.480 - 1.486	1.479 - 1.484	1.483 - 1.486	1.484 -1.489	1.484 - 1.489	1.486 ± 0.002	1.486 ± 0.002	1.485 ± 0.003	1.478 ± 0.004	1.492 ± 0.002	1.489 -1.495	1.491 ± 0.001	1.486 -1.495	1.498 -1.502	1.512 ± 0.004
VOLATILE LOSS 130°C for 3 Hrs. (Max.)	% By weight	KLJ TM-P-11-92	0.10	0.10	0.10	0.10	0.10	0.10	0.05	0.1	0.15	0. 20	0.10 (110°C for 2 Hours)	0.1 (110°C for 2 Hours)	0.1 (110°C for 2 Hours)	0.1 (110°C for 2 Hours)	0.2 (110°C for 1 Hour)	0.5 (110°C for 1 Hour)
MOISTURE CONTENT (Max.)	% By weight	ASTM-E-203	0.1	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
ACIDITY AS ACID (Max.)	% By weight	ASTM-D-1045-86	0.01	0.01	0.01	0.01	0.01	0.01	0.0033	0.01	0.01	0.030	0.01	0.01	0.01	0.01	0.015	0.020
ACIDITY AFTER HEAT TREATMENT at 180°C for 2 Hrs. (Max.)	% By weight	ISI-9591-96	0.03	0.03	0.03	0.03	0.03	0.03	0.015	0.03	0.03	0.05	0.03	0.03	0.03	0.03	0.05	0.05
HEAT STABILITY at 180°C for 2 Hrs.		ISI-9591-96	NO CHANGE IN COLOUR	NO CHANGE IN COLOUR	NO CHANGE IN COLOUR	NO CHANGE IN COLOUR	NO CHANGE IN COLOUR	NO CHANGE IN COLOUR	NO CHANGE IN COLOUR	NO CHANGE IN COLOUR	NO CHANGE IN COLOUR	50 Hu.	NO CHANGE IN COLOUR (150°C, 2Hrs.)	NO CHANGE IN COLOUR (150°C, 2Hrs.)	NO CHANGE IN COLOUR (150°C, 2Hrs.)	NO CHANGE IN COLOUR (150°C, 2Hrs.)	35 Hu. (150°C, 2Hrs.)	35 Hu. (150°C, 2Hrs.)
ESTER VALUE	mg KOH/gm	ASTM-D-1045-86	251.5 ± 2.5	247 - 256	249 - 254	249 - 254	267.5 ± 2.5	265 - 270	287 ± 3	287 ± 3	285 ± 5	269 ± 5	350 ± 3	385 ± 9	403 ± 2	402 ± 3	503 ± 3	575 ± 3
ESTER CONTENT % BY WEIGHT (Min.)	% By weight	ASTM-D-1045-86	99.5	99.5	99.5	99.5	99.5	99.5	99.9	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
PLASTICIZING ESTERS By GLC (Min.)	% By area	KLJ TM-P-12-98	99.5	99.5	99.5	99.5	99.5	99.5	99.9	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
VISCOSITY at 20°C	CPS	KLJ TM-P-13-97	108 ± 2	110 ± 7	60 ± 3	120 ± 2	79 ± 3	79 ± 3	80-82	80-82	74 ± 3	32 ± 3	27 ± 2	23 ± 2	21 ± 2	34.5 ± 1.5	12 ± 2	17.1
BOILING POINT at Atmospheric Pressure	°C	IS : 5298-73	400	251 - 256 at 7mbar	261 at 5mmHG	251-254 at 7mmHG	250 at 7mbar	251 at 7mbar	386	231 at 7mbar	N.A.	N.A.	N.A.	-	340	327	298	282
RESIDUAL/ FREE ALCOHOL (Max.)	% By area	KLJ TM-P-12-98	0.10	0.10	0.10	0.10	0.10	0.10	0.03	0.10	0.10	0.10	0.05	0.05	0.05	0.05	0.02	0.02
REACH COMPLIANCE	Y/ N		YES	YES	YES	YES	YES	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.