NON PHTHALATE PLASTICIZERS

PRODUCT SPECIFICATION	UNIT	TEST METHOD	KANATOL TM 8-10	KANATOL TM 8-10(L)	KANATOL 3800	KANATOL HT-9	KANATOL 3400 C	KANATOL 3400 AC	KANATOL 80 S	KANATOL 40 S	KANATOL 8 S	KANATOL DGB	KANATOL 9090	KANATOL 8080 Food Grade	KANATOL 9060	KANATOL 8060
					TRI-OCTYL TRIMELLITATE		TRI-BUTYL CITRATE	ACETYL TRI-BUTYL CITRATE	OCTYL STEARATE	n-BUTYL STEARATE	DI-OCTYL SEBACATE	DI-ETHYLENE GLYCOL DI-BENZOATE	DI ISO NONYL 1.4 BENZENE DI-CARBOXYLATE	BIS (2EthylHexy) 1.4 BENZENE DI-CARBOXYLATE	DI ISO NONYL CYCLO HEXANOATE	DI-OCTYL CYCLO HEXANOATE
APPEARANCE		PHYSICAL	WATER WHITE CLEAR LIQUID													
COLOUR (Max.)	HAZEN	ASTM-D-1045-86	100	100	50	40	50	40	60	60	40	100	20	20	40	40
SPECIFIC GRAVITY at 27°C		ASTM-D-1045-86	0.974 -0.980	0.974-0.980	0.990 ± 0.005	0.969 ± 0.003	1.042 ± 0.005	1.050 ± 0.005	0.860 ± 0.005	0.85 - 0.86	0.915 ± 0.005	1.165 - 1.170	0.962 - 0.968	0.980 - 0.986	0.950 ± 0.005	0.955 ± 0.003
REFRACTIVE INDEX at 27°C		ASTM-D-1045-86	1.4855 - 1.4865	1.4845-1.4855	1.483 - 1.487	1.485 - 1.491	1.443 ± 0.003	1.441 ± 0.003	1.445 ± 0.005	1.445 ± 0.005	1.442 -1.452	1.520 ± 0.003	1.483 - 1.489	1.484 - 1.489	1.463 ± 0.005	1.459 - 1.465
VOLATILE LOSS at 130°C for 3 hrs. (Max.)	% By weight	KLJ TM-P-11-92	0.1	0.1	0.10	0.10	0.40	0.30	0.20	0.20 (110°C for 2 Hrs.)	0.20	0.15	0.10	0.10	0.2	0.10
MOISTURE CONTENT (Max.)	% By weight	ASTM-E-203	0.1	0.1	0.1	0.10	0.3	0.25	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
ACIDITY AS ACID (Max.)	% By weight	ASTM-D-1045-86	0.02	0.02	0.03	0.15	0.02	0.02	0.5	0.02	0.02	0.1	0.01	0.01	0.02	0.02
ACIDITY AFTER HEAT TREATMENT at 180°C for 2 Hrs. (Max.)	% By weight	ISI-9591-96	0.05	0.02	0.05	0.05	0.03	0.03	N. A.	N. A.	0.03	0.3	0.03	0.03	N.A.	N.A.
HEAT STABILITY at 180°C for 2 Hrs.		ISI-9591-96	NO CHANGE IN COLOUR	NO CHANGE IN COLOUR	65 Hu.	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
at 150°C for 2 Hrs.		-			-		NO CHANGE IN COLOUR	NO CHANGE IN COLOUR	NO CHANGE IN COLOUR	NO CHANGE IN COLOUR	-	-	-	-	-	-
ESTER VALUE	mg KOH/gm	ASTM-D-1045-86	275 - 285	275-285	306.5 ± 3.5	271 ± 3	468 ± 3	559 ± 3	142.5 ± 2.5	167 - 177	263 ± 3	351 ± 5	265 - 270	284 - 290	265 ± 3	283 ± 3
ESTER CONTENT (Min.)	% By weight	ASTM-D-1045-86	99	99	99	99.50	99	99	99.5	99	99.5	98	99.5	99.5	99.5	99.5
PLASTICIZING ESTERS By GLC Min.	% By area	KLJ TM-P-12-98	99	99	99	99.50	99	99	99	99	99	99	99.5	99.5	99.5	99.5
VISCOSITY at 20°C	Cps	KLJ TM-P-13-97	497 ± 3	110±5	274.5 ± 2.5	-	33 - 35	34 ± 1	18 - 20 (at 25°C)	10 - 12 (at 25°C)	59 - 63	88 ± 2	83 ± 2	63 ± 2	50 ± 6	47 ± 3
BOILING POINT AT ATMOSPHERIC PRESSURE	°C	IS : 5298-73	-	-	283 at 1.32 mbar	-	170 at 1.33 mbar	173 at 1.33 mbar	-	343	248 at 5mmHG	240 at 5mmHG	-	400	240 - 250	-
IODINE VALUE (Max.)		British Pharm.-88	-	-	-	-	-	-	2.5	2.5 PPM	-	-	-	-	-	-
REACH COMPLIANCE	Y/ N		N.A.	YES	N.A.	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES