

**DOP SPECIFICATION**

Chemical name: Di-Octyl Phthalate

No	Items	Unit	Specification	Typical	Test method
1	Color	APHA	30 max.	10	JIS K 6751
2	Acid Value	KOH mg/g	0.03 max.	0.010	JIS K 6751
3	Volume Resistivity	$\Omega \cdot \text{cm}(30^{\circ}\text{C})$	$2.0 \cdot 10^{11}$ min	$4.0 \cdot 10^{11}$	JIS K 6751
4	Specific Gravity	$(20/20^{\circ}\text{C})$	0.986 ± 0.003	0.985	JIS K 6751
5	Acid value (after heating)	KOH mg/g	0.2 max	0.07	JIS K 6751
6	Ester value	KOH mg/g	287 ± 3	287	JIS K 6751
7	Refractive index	$\text{Nd}_{20} \cdot 25^{\circ}\text{C}$	1.485 ± 0.003	1.484	JIS K 6751
8	Heating loss	Wt%	0.1 max	0.07	JIS K 6751
9	Water content	Wt%	0.1 max	0.05	ASTM E-203
10	Purity	Wt%	99.5% min	99.8	GC
11	Dynamic Viscosity at 40°C	Cp	26 ± 3	26	ASTM D445

Physical properties (for reference purpose only)

No	Items	Unit	Specification	Typical	Test method
1	Molecular Weight		391	/	/
2	Boiling Point	$^{\circ}\text{C}$	385	/	/
3	Freezing Point	$^{\circ}\text{C}$	-55	/	/
4	Flash Point	$^{\circ}\text{C}$	206	/	/