

General Physical Properties of the Aroclor® Chlorinated Compounds

Form	Aroclor 1231 Odorous residue oil	Aroclor 1232 Practically odorless residue oil	Aroclor 1242 Practically odorless residue oil	Aroclor 1248 Odorous to odorless green, clear, residue oil	Aroclor 1254 1254 yellow residue oil	Aroclor 1260 1260 yellow residue oil	Aroclor 1262 1262 yellow residue oil	Aroclor 1268 White to off-white residue	Aroclor 1280 1280 yellow, clear, residue	Aroclor 1282 Yellow trans- parent sticky residue	Aroclor 1288 Clear, yellow- to-orange, brittle resin	Aroclor 1298 Black, viscous, brittle resin
Color	50 clear, (A794)	50 clear, (A794)	50 clear, (A794)	50 clear, (A794)	50 clear, (A794)	50 clear, (A794)	50 clear, (A794)	1.5 clear, residue	2 clear, residue	2 clear, residue	2 clear, residue	2 clear, residue
Acidity — Maximum (0.2% KOH per Gm.)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Average Coefficient of Expansion — 60/100°C	0.0001 (15°-25°)	0.0001 (15°-25°)	0.0001 (15°-25°)	0.0001 (15°-25°)	0.0001 (15°-25°)	0.0001 (15°-25°)	0.0001 (15°-25°)	0.0001 (15°-25°)	0.0001 (15°-25°)	0.0001 (15°-25°)	0.0001 (15°-25°)	0.0001 (15°-25°)
Typical Density Specific Gravity Pounds per gallon — 15°C (59°F)	1.123-1.132 (25°/65.9°C) 8.95	1.124-1.135 (25°/65.9°C) 8.96	1.131-1.142 (25°/65.9°C) 9.00	1.133-1.145 (25°/65.9°C) 9.02	1.136-1.148 (25°/65.9°C) 9.04	1.139-1.151 (25°/65.9°C) 9.06	1.142-1.154 (25°/65.9°C) 9.08	1.145-1.157 (25°/65.9°C) 9.10	1.148-1.160 (25°/65.9°C) 9.12	1.151-1.163 (25°/65.9°C) 9.14	1.154-1.166 (25°/65.9°C) 9.16	1.157-1.169 (25°/65.9°C) 9.18
Distillation Range — ASTM D-28 (2nd)	225°-325°	230°-325°	325°-365°	340°-375°	350°-385°	365°-420°	385°-420°	395°-450°	395°-450°	395°-450°	395°-450°	395°-450°
Evaporation loss — 5% — ASTM D-4 Method 15°C 10°C 5°C	— 1.0 to 1.5 —	— 1.0 to 1.5 —	3.0 to 3.5 0.0 to 0.1	3.0 to 3.5 0.0 to 0.1	3.0 to 3.5 0.0 to 0.1	3.0 to 3.5 0.0 to 0.1	3.0 to 3.5 0.0 to 0.1	3.0 to 3.5 0.0 to 0.1	3.0 to 3.5 0.0 to 0.1	3.0 to 3.5 0.0 to 0.1	3.0 to 3.5 0.0 to 0.1	3.0 to 3.5 0.0 to 0.1
Flash Point — Cleveland Open Cup	101°-105° 225°-230°	127°-131° 257°-262°	170°-180° 317°-327°	187°-197° 347°-357°	197°-207° 367°-377°	207°-217° 387°-397°	217°-227° 407°-417°	227°-237° 427°-437°	237°-247° 447°-457°	247°-257° 467°-477°	257°-267° 487°-497°	267°-277° 507°-517°
Fire Point — Cleveland Open Cup	170° 340°	227° 437°	None*	None	None	None	None	None	None	None	None	None
Pour Point — ASTM D-48	Crystalline at 1°C Crystalline at 24°C	-36.5° -32°	-30° 2°	-7° 18.4°	10° 50°	21° 80°	28°-30° 90°	35°-37° 100°	42° 110°	49° 118°	56° 125°	63° 132°
Solubility Point — ASTM D-28	— —	— —	— —	— —	— —	— —	— —	100° to 120° (212° to 248°) 0.01 to 0.1 (0.01 to 0.1)	80° to 100° (176° to 212°) 0.01 to 0.1 (0.01 to 0.1)	60° to 80° (140° to 176°) 0.01 to 0.1 (0.01 to 0.1)	40° to 60° (104° to 140°) 0.01 to 0.1 (0.01 to 0.1)	20° to 40° (68° to 104°) 0.01 to 0.1 (0.01 to 0.1)
Refractive Index — D-line — 20°C	1.471-1.481	1.470-1.472	1.472-1.478	1.470-1.475	1.469-1.471	1.471-1.473	1.471-1.473	1.471-1.473	1.471-1.473	1.471-1.473	1.471-1.473	1.471-1.473
Viscosity — Saybolt Universal 210°F (93.3°C) Sec. (ASTM — D-56)	30-31 130°F (54.4°C) 180°F (82.2°C)	31-32 30-31 30-31	34-35 46-46 63-62	36-37 73-80 100-100	37-38 100-100 120-120	38-39 100-100 140-140	39-40 100-100 160-160	40-41 100-100 180-180	41-42 100-100 200-200	42-43 100-100 220-220	43-44 100-100 240-240	44-45 100-100 260-260
Coral LD ₅₀ —rats (approx.) Skin HD ₅₀ —rabbits—g/kg LD ₅₀ —mice—g/kg	3950* 2300* 2150*	4470* 1250* 800*	8650* 794* 1500*	11,000* 734* 1500*	11,347* 734* 1500*	10,800* 734* 1500*	11,300* 734* 1500*	10,900* 734* 1500*	16,000* 734* 1500*	10,600* 734* 1500*	19,200* 734* 1500*	6,310* 734* 1500*

*undiluted ** administered as 30% soln. in corn oil 333/3 in corn oil 22 20% soln. in corn oil 22 10% soln. in corn oil 22 10% soln. in corn oil