

Table 10-1 REFRACTIVE INDEX, DIPOLE MOMENT, AND RADIUS OF GYRATION - ORGANIC COMPOUNDS (continued)

NO	FORMULA	NAME	Refractive Index		Dipole Moment		Radius of Gyration
			T, C	Value @ T	State	Debye	
			25.0	1.3985	—	—	3.730
391	C5H8O2	ALLYL ACETATE	25.0	1.4034	—	—	3.784
392	C5H8O2	ETHYL ACRYLATE	25.0	1.4120	in benzene	1.97	3.620
393	C5H8O2	METHYL METHACRYLATE	—	—	—	—	3.867
394	C5H8O2	VINYL PROPIONATE	22.9	1.4460	—	—	4.188
395	C5H8O3	2-HYDROXYETHYL ACRYLATE	19.9	1.4396	—	—	3.675
396	C5H8O3	LEVULINIC ACID	19.9	1.4186	—	—	3.934
397	C5H8O3	METHYL ACETOACETATE	106.9	1.4188	in dioxane	2.64	4.591
398	C5H8O4	GLUTARIC ACID	25.0	1.3951	in benzene	3.60	3.631
399	C5H9N	VALERONITRILE	25.0	1.4061	—	—	3.851
400	C5H9NO	n-BUTYL ISOCYANATE	25.0	1.4690	in benzene	4.09	3.482
401	C5H9NO	N-METHYL-2-PYRROLIDONE	—	—	—	—	4.711
402	C5H9NO4	L-GLUTAMIC ACID	25.0	1.4036	liquid	0.00	2.850
403	C5H10	CYCLOPENTANE	25.0	1.3746	gas	0.51	3.287
404	C5H10	2-METHYL-1-BUTENE	25.0	1.3842	—	—	3.281
405	C5H10	2-METHYL-2-BUTENE	25.0	1.3611	gas	0.32	3.272
406	C5H10	3-METHYL-1-BUTENE	25.0	1.3684	liquid	0.47	3.231
407	C5H10	1-PENTENE	25.0	1.3798	—	—	3.330
408	C5H10	cis-2-PENTENE	25.0	1.3761	—	—	3.280
409	C5H10	trans-2-PENTENE	25.0	1.5078	—	—	—
410	C5H10Br2	2,3-DIBROMO-2-METHYLBUTANE	25.0	1.4541	in benzene	2.36	4.423
411	C5H10Cl2	1,5-DICHLOROPENTANE	25.0	1.3857	in benzene	2.77	3.465
412	C5H10O	METHYL ISOPROPYL KETONE	25.0	1.3880	in benzene	2.72	3.618
413	C5H10O	2-PENTANONE	25.0	1.3900	in CCl4	2.82	3.583
414	C5H10O	DIETHYL KETONE	25.0	1.3917	in benzene	2.57	3.516
415	C5H10O	VALERALDEHYDE	25.0	1.3874	gas	1.92	3.947
416	C5H10O2	n-BUTYL FORMATE	25.0	1.3814	in benzene	1.75	3.934
417	C5H10O2	ETHYL PROPIONATE	25.0	1.3835	in benzene	1.89	4.294
418	C5H10O2	ISOBUTYL FORMATE	25.0	1.3750	gas	1.75	3.679
419	C5H10O2	ISOPROPYL ACETATE	25.0	1.3828	in benzene	1.79	3.969
420	C5H10O2	n-PROPYL ACETATE	25.0	1.3847	in benzene	1.72	3.972
421	C5H10O2	METHYL n-BUTYRATE	—	—	—	—	3.762
422	C5H10O2	2-METHYLBUTYRIC ACID	25.0	1.4022	in benzene	0.63	3.762
423	C5H10O2	ISOVALERIC ACID	25.0	1.4060	—	—	3.965
424	C5H10O2	VALERIC ACID	25.0	1.4499	in dioxane	2.12	3.481
425	C5H10O2S	3-METHYL SULFOLANE	25.0	1.4756	gas	4.80	3.499
426	C5H10O3	DIETHYL CARBONATE	25.0	1.3829	gas	1.10	3.986
427	C5H10O3	ETHYL LACTATE	19.9	1.4124	in benzene	2.40	3.622
428	C5H10S	THIACYCLOHEXANE	25.0	1.5043	—	—	—
429	C5H10S	CYCLOPENTANETHIOL	—	—	—	—	—
430	C5H11Br	1-BROMOPENTANE	25.0	1.4420	liquid	1.99	—
431	C5H11Cl	1-CHLOROPENTANE	25.0	1.4104	in benzene	1.94	3.995
432	C5H11Cl	1-CHLORO-3-METHYLBUTANE	25.0	1.4063	in benzene	1.94	—
433	C5H11Cl	2-CHLORO-2-METHYLBUTANE	25.0	1.4023	in benzene	2.16	—
434	C5H11N	N-METHYLPYRROLIDINE	19.9	1.4292	—	—	3.104
435	C5H11N	PIPERIDINE	19.9	1.4525	in benzene	1.19	3.122
436	C5H11NO	tert-BUTYLFORMAMIDE	25.0	1.4275	in dioxane	3.93	3.507
437	C5H12	ISOPENTANE	25.0	1.3509	gas	0.13	3.324
438	C5H12	NEOPENTANE	25.0	1.3390	gas	0.00	3.161
439	C5H12	n-PENTANE	25.0	1.3547	gas	0.00	3.337
440	C5H12O	2,2-DIMETHYL-1-PROPANOL	25.0	1.3915	—	—	3.399
441	C5H12O	tert-PENTYL-ALCOHOL	25.0	1.4024	—	—	—
442	C5H12O	2-METHYL-1-BUTANOL	25.0	1.4086	—	—	3.612
443	C5H12O	2-METHYL-2-BUTANOL	25.0	1.4024	in benzene	1.70	3.359
444	C5H12O	3-METHYL-1-BUTANOL	25.0	1.4052	in benzene	1.80	3.684
445	C5H12O	3-METHYL-2-BUTANOL	25.0	1.4075	—	—	3.480
446	C5H12O	1-PENTANOL	25.0	1.4080	in CCl4	1.70	3.679
447	C5H12O	2-PENTANOL	25.0	1.4044	—	—	3.619
448	C5H12O	3-PENTANOL	25.0	1.4079	—	—	3.503
449	C5H12O	METHYL sec-BUTYL ETHER	25.0	1.3702	—	—	3.463
450	C5H12O	METHYL tert-BUTYL ETHER	25.0	1.3663	in benzene	1.36	3.179
451	C5H12O	METHYL ISOBUTYL ETHER	25.0	1.3852	—	—	3.608
452	C5H12O	ETHYL PROPYL ETHER	25.0	1.3660	in benzene	1.16	3.470
453	C5H12O2	ETHYLENE GLYCOL MONOPROPYL ETHER	19.9	1.4133	—	—	3.822
454	C5H12O2	NEOPENTYL GLYCOL	—	—	—	—	3.680
455	C5H12O2	1,5-PENTANEDIOL	25.0	1.4487	in dioxane	2.37	4.030
456	C5H12O3	2-(2-METHOXYETHOXY)ETHANOL	25.0	1.4245	—	—	4.098
457	C5H12O4	PENTAERYTHRITOL	—	—	—	—	4.159
458	C5H12S	n-PENTYL MERCAPTAN	25.0	1.4444	gas	2.00	3.797
459	C5H12S	BUTYL-METHYL-SULFIDE	25.0	1.4452	in benzene	1.58	—
460	C5H12S	ETHYL-PROPYL-SULFIDE	25.0	1.4435	—	—	—
461	C5H12S	2-METHYL-2-BUTANETHIOL	25.0	1.4354	—	—	—
462	C5H13N	n-PENTYLAMINE	25.0	1.4093	—	—	—
463	C5H13NO2	METHYL DIETHANOLAMINE	19.9	1.4685	in benzene	1.55	3.641
464	C6Cl6	HEXACHLOROBENZENE	23.6	1.5691	gas	2.86	4.366
465	C6F6	HEXAFLUOROBENZENE	25.0	1.3761	in benzene	0.54	5.701
466	C6H3Cl2NO4	1-CHLORO-2,4-DINITROBENZENE	44.9	1.5924	in benzene	0.33	4.706
467	C6H3Cl2NO2	1,2-DICHLORO-4-NITROBENZENE	24.9	1.5929	in benzene	3.24	5.199
468					in benzene	2.17	—