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	Angstrom
469	C6H3Cl3	1,2,4-TRICHLOROBENZENE	25.0	1.5693	in benzene	1.26	4.832
470	C6H3N3O6	1,3,5-TRINITROBENZENE	——	——	in benzene	0.41	5.769
471	C6H4Br2	m-DIBROMOBENZENE	16.9	1.6083	in benzene	1.47	4.691
472	C6H4ClNO2	m-CHLORONITROBENZENE	49.9	1.5545	gas	3.73	4.676
473	C6H4ClNO2	o-CHLORONITROBENZENE	44.9	1.5520	gas	4.64	4.367
474	C6H4ClNO2	p-CHLORONITROBENZENE	——	——	gas	2.83	4.494
475	C6H4Cl2	m-DICHLOROBENZENE	25.0	1.5434	gas	1.72	4.389
476	C6H4Cl2	o-DICHLOROBENZENE	25.0	1.5491	gas	2.50	4.186
477	C6H4Cl2	p-DICHLOROBENZENE	54.9	1.5285	gas	0.00	4.149
478	C6H4F2	m-DIFLUOROBENZENE	25.0	——	gas	1.58	——
479	C6H4F2	o-DIFLUOROBENZENE	25.0	——	in benzene	2.40	——
480	C6H4F2	p-DIFLUOROBENZENE	25.0	——	——	——	——
481	C6H4N2O4	m-DINITROBENZENE	——	——	in benzene	3.84	4.873
482	C6H4N2O4	o-DINITROBENZENE	——	——	in benzene	6.30	4.485
483	C6H4N2O4	p-DINITROBENZENE	——	——	gas	0.00	4.769
484	C6H5Br	BROMOBENZENE	25.0	1.5577	gas	1.70	3.466
485	C6H5Cl	MONOCHLOROBENZENE	19.9	1.5248	gas	1.69	3.603
486	C6H5ClO	m-CHLOROPHENOL	19.9	1.5632	in benzene	2.17	4.043
487	C6H5ClO	o-CHLOROPHENOL	25.0	1.5568	in benzene	1.33	3.837
488	C6H5ClO	p-CHLOROPHENOL	54.9	1.5419	gas	2.11	3.913
489	C6H5Cl2N	3,4-DICHLOROANILINE	——	——	——	——	4.528
490	C6H5F	FLUOROBENZENE	25.0	1.4629	gas	1.60	3.345
491	C6H5I	IODOBENZENE	19.9	1.6210	gas	1.70	3.359
492	C6H5NO2	NITROBENZENE	25.0	1.5499	gas	4.22	3.944
493	C6H6	BENZENE	25.0	1.4979	gas	0.00	3.004
494	C6H6ClN	m-CHLOROANILINE	20.7	1.5942	in benzene	2.94	4.092
495	C6H6ClN	o-CHLOROANILINE	25.0	1.5859	in benzene	1.77	3.934
496	C6H6ClN	p-CHLOROANILINE	86.9	1.5546	in benzene	2.99	3.929
497	C6H6N2	cis-DICYANO-1-BUTENE	19.9	1.4665	——	——	4.548
498	C6H6N2	trans-DICYANO-1-BUTENE	19.9	1.4701	——	——	4.061
499	C6H6N2	1,4-DICYANO-2-BUTENE	——	——	——	——	4.155
500	C6H6N2O2	m-NITROANILINE	——	——	in benzene	4.90	4.350
501	C6H6N2O2	o-NITROANILINE	——	——	in benzene	4.06	4.198
502	C6H6N2O2	p-NITROANILINE	——	——	in benzene	6.29	4.263
503	C6H6O	PHENOL	24.9	1.5496	gas	1.45	3.415
504	C6H6O2	1,2-BENZENEDIOL	25.0	1.6044	in benzene	2.60	3.672
505	C6H6O2	1,3-BENZENEDIOL	25.0	1.5781	in benzene	2.09	3.795
506	C6H6O2	p-HYDROQUINONE	——	——	in benzene	1.40	3.708
507	C6H6O3	1,2,3-BENZENETRIOL	——	——	——	——	3.960
508	C6H6S	PHENYL MERCAPTAN	25.0	1.5872	in benzene	1.23	3.608
509	C6H7N	ANILINE	25.0	1.5836	gas	1.53	3.436
510	C6H7N	2-METHYLPYRIDINE	25.0	1.4984	in benzene	1.97	3.365
511	C6H7N	3-METHYLPYRIDINE	23.9	0.1504	in benzene	2.40	3.401
512	C6H7N	4-METHYLPYRIDINE	19.9	1.5058	gas	2.75	3.409
513	C6H8	1,3-CYCLOHEXADIENE	19.9	1.4755	gas	0.44	2.835
514	C6H8	METHYLCYCLOPENTADIENE	25.0	1.4572	——	——	3.192
515	C6H8N2	ADIPONITRILE	25.0	1.4360	gas	3.76	3.979
516	C6H8N2	METHYLGLUTARONITRILE	25.0	1.4312	——	——	4.448
517	C6H8N2	m-PHENYLENEDIAMINE	——	——	gas	1.81	3.836
518	C6H8N2	o-PHENYLENEDIAMINE	——	——	gas	1.53	3.740
519	C6H8N2	p-PHENYLENEDIAMINE	——	——	gas	1.53	3.733
520	C6H8N2	PHENYLHYDRAZINE	25.0	1.6055	in benzene	1.67	3.776
521	C6H8N2O	BIS(CYANOETHYL)ETHER	25.0	1.4392	——	——	4.715
522	C6H8O4	DIMETHYL MALEATE	25.0	1.4405	in CCl4	2.48	4.952
523	C6H8O6	ASCORBIC ACID	——	——	in dioxane	3.96	4.891
524	C6H8O7	CITRIC ACID	19.9	1.4960	——	——	4.705
525	C6H10	1-METHYLCYCLOPENTENE	25.0	1.4294	——	——	——
526	C6H10	3-METHYLCYCLOPENTENE	25.0	1.4184	——	——	——
527	C6H10	4-METHYLCYCLOPENTENE	25.0	1.4184	——	——	——
528	C6H10	CYCLOHEXENE	25.0	1.4438	gas	0.55	3.157
529	C6H10	2,3-DIMETHYL-1,3-BUTADIENE	25.0	1.4362	gas	0.51	3.570
530	C6H10	1,5-HEXADIENE	25.0	1.4010	——	——	3.464
531	C6H10	cis,trans-2,4-HEXADIENE	19.9	1.4560	in benzene	0.31	3.765
532	C6H10	trans,trans-2,4-HEXADIENE	19.9	1.4510	in benzene	0.31	3.525
533	C6H10	1-HEXYNE	25.0	1.3957	gas	0.83	3.691
534	C6H10	2-HEXYNE	25.0	1.4109	——	——	3.718
535	C6H10	3-HEXYNE	25.0	1.4088	——	——	3.966
536	C6H10O	CYCLOHEXANONE	25.0	1.4507	gas	3.08	3.511
537	C6H10O	MESITYL OXIDE	25.0	1.4414	in benzene	3.20	3.913
538	C6H10O2	epsilon-CAPROLACTONE	23.9	1.4481	gas	4.45	3.462
539	C6H10O2	ETHYL METHACRYLATE	25.0	1.4115	in benzene	2.15	4.197
540	C6H10O2	n-PROPYL ACRYLATE	25.0	1.4130	——	——	4.336
541	C6H10O3	ETHYLACETOACETATE	——	——	gas	2.96	4.405
542	C6H10O3	PROPIONIC ANHYDRIDE	19.9	1.4045	——	——	4.295
543	C6H10O4	ADIPIC ACID	25.0	1.4880	in dioxane	2.32	4.976
544	C6H10O4	DIETHYL OXALATE	19.9	1.4102	in benzene	2.49	4.668
545	C6H10O4	ETHYLENE GLYCOL DIACETATE	19.9	1.4159	in benzene	2.34	4.867
546	C6H10O4	ETHYLIDENE DIACETATE	25.0	1.3985	——	——	4.481