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

			Refractive Index		Dipole Moment		Radius of Gyration
			T, C	Value @ T	State	Debye	Angstrom
NO	FORMULA	NAME	19.9	1.4658	——	——	3.780
79	C2H2Cl2O2	DICHLOROACETIC ACID	——	——	——	——	3.476
80	C2H2Cl3F	1,1,1-TRICHLOROFLUOROETHANE	25.0	1.4794	gas	1.29	——
81	C2H2Cl4	1,1,1,2-TETRACHLOROETHANE	25.0	1.4914	gas	1.29	4.044
82	C2H2Cl4	1,1,2,2-TETRACHLOROETHANE	——	——	gas	1.38	2.528
83	C2H2F2	1,1-DIFLUOROETHYLENE	——	——	gas	2.42	——
84	C2H2F2	cis-1,2-DIFLUOROETHENE	——	——	in benzene	0.55	——
85	C2H2F2	trans-1,2-DIFLUOROETHENE	25.0	1.0007	——	——	2.944
86	C2H2F4	1,1,1,2-TETRAFLUOROETHANE	——	——	gas	1.42	1.605
87	C2H2O	KETENE	——	——	in dioxane	2.63	3.220
88	C2H2O4	OXALIC ACID	25.0	1.4350	gas	1.42	1.763
89	C2H3Br	VINYL BROMIDE	25.0	1.3660	gas	1.45	2.049
90	C2H3Cl	VINYL CHLORIDE	——	——	gas	2.14	2.896
91	C2H3ClF2	1-CHLORO-1,1-DIFLUOROETHANE	19.9	1.3871	gas	2.72	2.712
92	C2H3ClO	ACETYL CHLORIDE	——	——	in benzene	1.99	2.668
93	C2H3ClO	CHLOROACETALDEHYDE	64.9	1.4300	in benzene	2.31	3.157
94	C2H3ClO2	CHLOROACETIC ACID	19.9	1.3865	in benzene	2.22	2.962
95	C2H3ClO2	METHYL CHLOROFORMATE	25.0	1.4313	gas	1.78	3.373
96	C2H3Cl3	1,1,1-TRICHLOROETHANE	25.0	1.4689	gas	1.25	3.717
97	C2H3Cl3	1,1,2-TRICHLOROETHANE	25.0	1.3400	gas	1.43	1.934
98	C2H3F	VINYL FLUORIDE	25.0	1.2060	gas	2.32	2.767
99	C2H3F3	1,1,1-TRIFLUOROETHANE	25.0	1.3416	gas	3.92	1.841
100	C2H3N	ACETONITRILE	26.9	1.3630	gas	2.80	2.236
101	C2H3NO	METHYL ISOCYANATE	25.0	1.0007	gas	0.00	1.548
102	C2H4	ETHYLENE	25.0	1.5101	in benzene	2.14	3.099
103	C2H4Br2	1,1-DIBROMOETHANE	25.0	1.5360	gas	1.01	2.833
104	C2H4Br2	1,2-DIBROMOETHANE	25.0	1.4138	gas	2.06	3.095
105	C2H4Cl2	1,1-DICHLOROETHANE	25.0	1.4421	liquid	2.94	2.827
106	C2H4Cl2	1,2-DICHLOROETHANE	20.9	1.4350	gas	0.99	3.373
107	C2H4Cl2O	BIS(CHLOROMETHYL)ETHER	25.0	1.2434	gas	2.27	2.514
108	C2H4F2	1,1-DIFLUOROETHANE	25.0	1.2800	gas	2.67	2.508
109	C2H4F2	1,2-DIFLUOROETHANE	——	——	in benzene	1.30	——
110	C2H4I2	1,2-DIIODOETHANE	25.0	1.3283	gas	2.69	2.083
111	C2H4O	ACETALDEHYDE	6.9	1.3596	gas	1.89	1.937
112	C2H4O	ETHYLENE OXIDE	——	——	——	——	——
113	C2H4OS	THIOACETIC-ACID	25.0	1.3698	gas	1.74	2.610
114	C2H4O2	ACETIC ACID	25.0	1.3415	gas	1.77	2.387
115	C2H4O2	METHYL FORMATE	25.0	1.4870	——	——	——
116	C2H4S	THIACYCLOPROPANE	25.0	1.4212	gas	2.03	1.987
117	C2H5Br	BROMOETHANE	25.0	1.3652	gas	2.05	2.267
118	C2H5Cl	ETHYL CHLORIDE	19.9	1.4421	gas	1.78	2.779
119	C2H5ClO	2-CHLOROETHANOL	25.0	1.2621	gas	1.94	2.832
120	C2H5F	ETHYL FLUORIDE	25.0	1.5101	gas	1.91	1.799
121	C2H5I	ETHYL IODIDE	25.0	1.4123	gas	1.90	1.990
122	C2H5N	ETHYLENEIMINE	77.9	1.4274	gas	3.76	2.621
123	C2H5NO	ACETAMIDE	25.0	1.4300	gas	3.83	2.428
124	C2H5NO	N-METHYLFORMAMIDE	25.0	1.3897	gas	3.65	2.795
125	C2H5NO2	NITROETHANE	——	——	in benzene	2.93	——
126	C2H5NO3	ETHYL-NITRATE	19.9	1.0047	gas	0.00	1.826
127	C2H6	ETHANE	——	——	gas	1.63	——
128	C2H6AlCl	DIMETHYLALUMINUM CHLORIDE	25.0	1.2984	gas	1.30	2.154
129	C2H6O	DIMETHYL ETHER	25.0	1.3594	gas	1.69	2.259
130	C2H6O	ETHANOL	25.0	1.4773	gas	3.96	2.840
131	C2H6OS	DIMETHYL SULFOXIDE	25.0	1.4306	in dioxane	2.31	2.564
132	C2H6O2	ETHYLENE GLYCOL	25.0	1.3855	——	——	3.314
133	C2H6O4S	DIMETHYL SULFATE	25.0	1.4323	gas	1.50	2.374
134	C2H6S	DIMETHYL SULFIDE	25.0	1.4278	gas	1.58	2.363
135	C2H6S	ETHYL MERCAPTAN	25.0	1.5230	in benzene	1.97	2.942
136	C2H6S2	DIMETHYL DISULFIDE	25.0	1.3566	gas	1.03	2.271
137	C2H7N	DIMETHYLAMINE	25.0	1.3627	gas	1.22	2.336
138	C2H7N	ETHYLAMINE	25.0	1.4521	in dioxane	0.78	1.826
139	C2H7NO	MONOETHANOLAMINE	19.9	1.4568	in benzene	1.90	2.761
140	C2H8N2	ETHYLENEDIAMINE	——	——	gas	0.75	1.881
141	C2H8Si	DIMETHYL SILANE	——	——	gas	0.00	2.190
142	C2N2	CYANOGEN	——	——	——	——	3.796
143	C3F6	HEXAFLUOROPROPYLENE	——	——	gas	0.65	3.933
144	C3F6O	HEXAFLUOROACETONE	——	——	——	——	3.736
145	C3F8	OCTAFLUOROPROPANE	——	——	gas	3.72	3.058
146	C3H2N2	MALONONITRILE	33.9	1.4146	gas	1.68	2.730
147	C3H3Cl	PROPARGYL CHLORIDE	25.0	1.4317	gas	3.87	2.464
148	C3H3N	ACRYLONITRILE	25.0	1.3884	gas	1.50	2.467
149	C3H3NO	OXAZOLE	17.5	1.4285	gas	0.78	1.908
150	C3H4	METHYLACETYLENE	-40.2	1.3863	gas	0.00	1.911
151	C3H4	PROPADIENE	-34.5	1.4169	gas	1.74	3.470
152	C3H4Cl2	2,3-DICHLOROPROPENE	25.0	1.4568	gas	3.12	2.443
153	C3H4O	ACROLEIN	19.9	1.4017	in benzene	1.78	2.543
154	C3H4O	PROPARGYL ALCOHOL	25.0	1.4300	gas	1.46	2.978
155	C3H4O2	ACRYLIC ACID	25.0	1.4185	gas	4.18	2.481
156	C3H4O2	beta-PROPIOLACTONE	——	——			