

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
157	C3H4O2	VINYL FORMATE	—	—	in benzene	1.66	2.680
158	C3H4O3	ETHYLENE CARBONATE	39.9	1.4199	gas	4.51	2.869
159	C3H4O3	PYRUVIC ACID	19.9	1.4280	—	—	3.235
160	C3H5Br	3-BROMO-1-PROPENE	25.0	1.4603	in benzene	1.81	—
161	C3H5Cl	2-CHLOROPROPENE	25.0	1.3920	gas	1.66	2.786
162	C3H5Cl	3-CHLOROPROPENE	25.0	1.4116	gas	1.94	2.668
163	C3H5ClO	alpha-EPICHLOROHYDRIN	25.0	1.4358	in CCl4	1.80	3.043
164	C3H5ClO2	METHYL CHLOROACETATE	25.0	1.4197	—	—	3.539
165	C3H5ClO2	ETHYL CHLOROFORMATE	19.9	1.3952	gas	2.55	3.595
166	C3H5Cl3	1,2,3-TRICHLOROPROPANE	25.0	1.4812	—	—	4.263
167	C3H5I	3-iodo-1-PROPENE	25.0	1.5500	in benzene	1.62	—
168	C3H5N	PROPIONITRILE	25.0	1.3636	gas	4.02	2.852
169	C3H5NO	ACRYLAMIDE	84.5	1.5660	—	—	2.950
170	C3H5NO	HYDRACRYLONITRILE	19.9	1.4256	—	—	3.098
171	C3H5NO	LACTONITRILE	19.9	1.4035	—	—	3.078
172	C3H5N3O9	NITROGLYCERINE	15.9	1.4786	in benzene	3.15	4.650
173	C3H6	CYCLOPROPANE	—	—	gas	0.00	2.120
174	C3H6	PROPYLENE	25.0	1.0009	gas	0.37	2.254
175	C3H6Br2	1,2-DIBROMOPROPANE	—	—	gas	1.24	—
176	C3H6Cl2	1,1-DICHLOROPROPANE	25.0	1.4266	in benzene	2.08	3.495
177	C3H6Cl2	1,2-DICHLOROPROPANE	25.0	1.4368	gas	1.17	3.496
178	C3H6Cl2	1,3-DICHLOROPROPANE	25.0	1.4460	gas	2.08	3.501
179	C3H6Cl2	2,2-DICHLOROPROPANE	25.0	1.4123	gas	2.09	—
180	C3H6I2	1,2-DIiodOPROPANE	25.0	1.6200	—	—	—
181	C3H6O	ACETONE	25.0	1.3560	gas	2.88	2.746
182	C3H6O	ALLYL ALCOHOL	19.9	1.4135	gas	1.60	2.577
183	C3H6O	METHYL VINYL ETHER	25.0	1.3947	—	—	2.570
184	C3H6O	n-PROPIONALDEHYDE	25.0	1.3593	gas	2.52	2.643
185	C3H6O	1,2-PROPYLENE OXIDE	25.0	1.3632	gas	2.01	2.660
186	C3H6O	1,3-PROPYLENE OXIDE	25.0	1.3897	gas	1.93	2.234
187	C3H6O2	ETHYL FORMATE	25.0	1.3575	gas	1.93	2.963
188	C3H6O2	METHYL ACETATE	25.0	1.3589	gas	1.68	2.996
189	C3H6O2	PROPIONIC ACID	25.0	1.3843	gas	1.75	3.107
190	C3H6O2S	3-MERCAPTOPROPIONIC ACID	19.9	1.4940	in dioxane	2.25	3.705
191	C3H6O3	LACTIC ACID	25.0	1.4392	—	—	3.298
192	C3H6O3	METHOXYACETIC ACID	19.9	1.4168	gas	2.56	3.293
193	C3H6O3	TRIOXANE	—	—	gas	2.08	2.823
194	C3H6S	THIACYCLOBUTANE	25.0	1.5074	—	—	—
195	C3H7Br	1-BROMOPROPANE	25.0	1.4317	gas	2.18	2.629
196	C3H7Br	2-BROMOPROPANE	25.0	1.4221	gas	2.21	2.615
197	C3H7Cl	ISOPROPYL CHLORIDE	25.0	1.3752	gas	2.17	2.905
198	C3H7Cl	n-PROPYL CHLORIDE	25.0	1.3858	gas	2.05	2.774
199	C3H7F	1-FLUOROPROPANE	25.0	1.3091	—	—	—
200	C3H7F	2-FLUOROPROPANE	25.0	1.2992	—	—	—
201	C3H7I	ISOPROPYL IODIDE	25.0	1.4961	in benzene	1.95	2.427
202	C3H7I	n-PROPYL IODIDE	25.0	1.5028	gas	2.04	2.311
203	C3H7N	ALLYLAMINE	19.9	1.4205	in benzene	1.31	2.704
204	C3H7N	PROPYLENIMINE	25.0	1.4095	—	—	2.543
205	C3H7NO	N,N-DIMETHYLFORMAMIDE	25.0	1.4269	gas	3.82	3.027
206	C3H7NO	N-METHYLACETAMIDE	19.9	1.4301	gas	3.72	3.051
207	C3H7NO2	1-NITROPROPANE	25.0	1.3996	gas	3.66	3.359
208	C3H7NO2	2-NITROPROPANE	25.0	1.3924	gas	3.73	3.273
209	C3H7NO3	PROPYL-NITRATE	—	—	in benzene	3.01	—
210	C3H7NO3	ISOPROPYL-NITRATE	—	—	—	—	—
211	C3H8	PROPANE	25.0	1.2861	gas	0.00	2.431
212	C3H8O	ISOPROPANOL	25.0	1.3752	gas	1.66	2.807
213	C3H8O	METHYL ETHYL ETHER	42.2	1.3441	gas	1.23	2.594
214	C3H8O	n-PROPANOL	25.0	1.3837	gas	1.68	2.825
215	C3H8O2	2-METHOXYETHANOL	25.0	1.4002	in benzene	2.04	2.985
216	C3H8O2	METHYLAL	25.0	1.3504	gas	0.74	2.891
217	C3H8O2	1,2-PROPYLENE GLYCOL	25.0	1.4314	liquid	3.63	3.154
218	C3H8O2	1,3-PROPYLENE GLYCOL	25.0	1.4386	in dioxane	2.52	3.169
219	C3H8O3	GLYCEROL	25.0	1.4730	liquid	4.21	3.520
220	C3H8S	n-PROPYLMERCAPTAN	25.0	1.4353	liquid	1.55	2.883
221	C3H8S	ISOPROPYL MERCAPTAN	25.0	1.4225	liquid	1.64	2.993
222	C3H8S	ETHYL-METHYL-SULFIDE	25.0	1.4374	—	—	—
223	C3H9N	n-PROPYLAMINE	25.0	1.3851	gas	1.17	2.806
224	C3H9N	ISOPROPYLAMINE	25.0	1.3711	liquid	1.50	2.802
225	C3H9N	TRIMETHYLAMINE	25.0	1.3443	gas	0.61	2.766
226	C3H9NO	1-AMINO-2-PROPANOL	25.0	1.4460	—	—	3.108
227	C3H9NO	3-AMINO-1-PROPANOL	19.9	1.4610	ns	2.69	3.126
228	C3H9NO	METHYLETHANOLAMINE	19.9	1.4385	in benzene	2.16	3.035
229	C3H9O4P	TRIMETHYL PHOSPHATE	25.0	1.3939	in CCl4	3.03	3.640
230	C3H10N2	1,2-PROPANEDIAMINE	19.9	1.4460	—	—	3.170
231	C3H10Si	TRIMETHYL SILANE	—	—	gas	0.52	—
232	C4Cl4S	TETRACHLOROTHIOPHENE	19.9	1.5915	in benzene	0.93	5.091
233	C4Cl6	HEXACHLORO-1,3-BUTADIENE	—	—	in benzene	0.20	5.299
234	C4F8	OCTAFLUORO-2-BUTENE	—	—	—	—	2.940