

Table 18 Dipole Moment – Inorganic Compounds

Dipole Moment							Dipole Moment						
ID	FORMULA	NAME	CAS No	state	Debye	code	ID	FORMULA	NAME	CAS No	state	Debye	code
1	AgBr	silver bromide	7785-23-1	gas	5.620	1	81	GeCl <sub>4</sub>	germanium chloride	10038-98-9	gas	0.000	1
2	AgCl	silver (i) chloride	7783-90-6	gas	6.080	1	82	GeF <sub>2</sub>	germanium (ii) fluoride	13940-63-1	gas	2.610	1
3	AgF	silver (i) fluoride	7775-41-9	gas	6.220	1	83	GeH <sub>3</sub> Cl	germane, chloro	13637-65-5	gas	2.130	1
4	AgI	silver (i) iodide	7783-96-2	gas	4.550	1	84	GeH <sub>3</sub> F	germane, fluoro	13537-30-9	gas	2.330	1
5	AlBr <sub>3</sub>	aluminum bromide	7727-15-3	in benzene	5.220	1	85	GeH <sub>3</sub> N <sub>3</sub>	germylazide	---	gas	2.579	1
6	AlC <sub>2</sub> H <sub>6</sub> Cl	aluminum, dimethyl chloride	1184-58-3	gas	1.631	1	86	GeO	germanium (ii) oxide	20619-16-3	gas	3.282	1
7	AlC <sub>3</sub> H <sub>9</sub>	aluminum, trimethyl	75-24-1	gas	1.430	1	87	GeS	germanium (ii) sulfide	12025-32-0	gas	2.000	1
8	AlC <sub>6</sub> H <sub>15</sub>	aluminum, triethyl	97-93-8	in benzene	0.600	1	88	GeSe	germanium (ii) selenide	12065-10-0	gas	1.650	1
9	AlCl <sub>3</sub>	aluminum chloride	7446-70-0	gas	2.030	1	89	GeTe	germanium (ii) telluride	12025-39-7	gas	1.060	1
10	AlI <sub>3</sub>	aluminum iodide	7784-23-8	in benzene	2.280	1	90	HBr	hydrogen bromide	10035-10-6	gas	0.827	1
11	Ar	argon	7440-37-1	gas	0.000	1	91	HCN	hydrogen cyanide	74-90-8	gas	2.980	1
12	AsBr <sub>3</sub>	arsenic (iii) bromide	7784-33-0	gas	1.610	1	92	HCNO	hydrogen isocyanate	75-13-8	gas	1.600	1
13	AsCl <sub>3</sub>	arsenic trichloride	7784-34-1	gas	1.590	1	93	HCNS	hydrogen isothiocyanate	3129-90-6	gas	1.700	1
14	AsF <sub>3</sub>	arsenic trifluoride	7784-35-2	gas	2.590	1	94	HCl	hydrogen chloride	7647-01-0	gas	1.079	1
15	AsH <sub>3</sub>	arsine	7784-42-1	gas	0.201	1	95	HF	hydrogen fluoride	7664-39-3	gas	1.820	1
16	AsI <sub>3</sub>	arsenic triiodide	7784-45-4	in dioxane	1.840	1	96	HFO	hypofluorous acid	14034-79-8	gas	2.230	1
17	As <sub>2</sub> O <sub>3</sub>	arsenic trioxide	1327-53-3	gas	0.130	1	97	HI	hydrogen iodide	10034-85-2	gas	0.448	1
18	BBr <sub>3</sub>	boron tribromide	10294-33-4	liquid	0.000	1	98	HNO <sub>2</sub>	nitrous acid (cis)	7782-77-6	gas	1.423	1
19	BCl <sub>3</sub>	boron trichloride	10294-34-5	gas	0.000	1	99	HNO <sub>3</sub>	nitric acid	7697-37-2	gas	2.170	1
20	BF <sub>3</sub>	boron trifluoride	7637-07-2	gas	0.000	1	100	HN <sub>3</sub>	hydrazoic acid	7782-79-8	gas	1.700	1
21	B <sub>2</sub> H <sub>6</sub>	diborane	19287-45-7	gas	0.000	1	101	HO	hydroxyl	---	gas	1.655	1
22	B <sub>3</sub> N <sub>3</sub> H <sub>6</sub>	borazine	6569-51-3	gas	0.000	1	102	HOCl	hypochlorous acid	7790-92-3	gas	1.300	1
23	B <sub>4</sub> H <sub>10</sub>	tetraborane	18283-93-7	gas	0.486	1	103	HO <sub>2</sub> F	hypofluorous acid	---	gas	2.230	1
24	B <sub>5</sub> H <sub>9</sub>	pentaborane	19624-22-7	gas	2.130	1	104	HS	mercapto	---	gas	0.758	1
25	B <sub>6</sub> H <sub>10</sub>	hexaborane	23777-80-2	gas	2.500	1	105	H <sub>2</sub>	hydrogen	1333-74-0	gas	0.000	1
26	B <sub>10</sub> H <sub>14</sub>	decaborane	---	in benzene	3.520	1	106	H <sub>2</sub> O	water	7732-18-5	gas	1.850	1
27	BaO	barium oxide	1304-28-5	gas	7.594	1	107	H <sub>2</sub> O <sub>2</sub>	hydrogen peroxide	7722-84-1	gas	1.573	1
28	BaS	barium sulfide	21109-95-5	gas	10.860	1	108	H <sub>2</sub> S	hydrogen sulfide	7783-06-4	gas	0.968	1
29	BrCl	bromine chloride	13863-41-7	gas	0.519	1	109	H <sub>2</sub> SO <sub>4</sub>	sulfuric acid	7664-93-9	gas	2.725	1
30	BrF	bromine fluoride	13863-59-7	gas	1.422	1	110	H <sub>2</sub> S <sub>2</sub>	hydrogen disulfide	13465-07-1	in dioxane	1.180	1
31	BrF <sub>3</sub>	bromine trifluoride	7787-71-5	gas	1.100	1	111	H <sub>2</sub> Se	hydrogen selenide	7783-07-5	gas	0.240	1
32	BrF <sub>5</sub>	bromine pentafluoride	7789-30-2	gas	1.510	1	112	H <sub>2</sub> Te	hydrogen telluride	7783-09-7	solid	0.400	1
33	BrNO	nitrosyl bromide	13444-87-6	gas	1.800	1	113	H <sub>3</sub> NO	hydroxylamine	7803-49-8	gas	0.590	1
34	BrO <sub>2</sub>	bromine dioxide	21255-83-4	gas	2.800	1	114	He	helium-3	14762-55-1	gas	0.000	1
35	Br <sub>2</sub>	bromine	7726-95-6	gas	0.000	1	115	He	helium-4	7440-59-7	gas	0.000	1
36	CCl <sub>2</sub> O	carbonyl chloride	75-44-5	gas	1.170	1	116	Hg	mercury	7439-97-6	gas	0.000	1
37	CF <sub>2</sub> O	carbonyl fluoride	353-50-4	gas	0.950	1	117	HgBr <sub>2</sub>	mercuric bromide	7789-47-1	in dioxane	1.540	1
38	CH <sub>4</sub> N <sub>2</sub> O	urea	57-13-6	in dioxane	4.557	1	118	HgCl <sub>2</sub>	mercuric chloride	7487-94-7	in dioxane	1.440	1
39	CH <sub>4</sub> N <sub>2</sub> S	thiourea	62-56-6	in benzene	5.067	1	119	Hgl <sub>2</sub>	mercuric iodide	7774-29-0	in dioxane	1.680	1
40	CNCI	cyanogen chloride	506-77-4	gas	2.820	1	120	I <sub>2</sub>	iodine	7789-33-5	gas	0.726	1
41	CN <sub>4</sub> O <sub>8</sub>	tetranitromethane	509-14-8	gas	0.000	1	121	ICl	iodine chloride	7790-99-0	gas	1.240	1
42	CO	carbon monoxide	630-08-0	gas	0.112	1	122	IF	iodine fluoride	13873-84-2	gas	1.948	1
43	COS	carbonyl sulfide	463-58-1	gas	0.711	1	123	IF <sub>5</sub>	iodine pentafluoride	7783-66-6	gas	2.180	1
44	COSe	carbon oxyselelide	1603-84-5	gas	0.730	1	124	IO	iodine oxide	---	gas	2.450	1
45	CO <sub>2</sub>	carbon dioxide	124-38-9	gas	0.000	1	125	I <sub>2</sub>	iodine	7553-56-2	gas	0.000	1
46	CS	carbon monosulfide	---	gas	1.980	1	126	InCl	indium (i) chloride	13465-10-6	gas	3.790	1
47	CS <sub>2</sub>	carbon disulfide	75-15-0	gas	0.000	1	127	InF	indium (i) fluoride	74508-07-9	gas	3.400	1
48	C <sub>2</sub> N <sub>2</sub>	cyanogen	460-19-5	gas	0.000	1	128	Ir	iridium	7439-88-5	---	---	1
49	ClF	chlorine monofluoride	7790-89-8	gas	0.888	1	129	K	potassium	7440-09-7	gas	0.000	1
50	ClFO <sub>3</sub>	perchloryl fluoride	7616-94-6	gas	0.023	1	130	KBr	potassium bromide	7758-02-3	gas	10.629	1
51	ClF <sub>3</sub>	chlorine trifluoride	7790-91-2	gas	0.600	1	131	KCl	potassium chloride	7447-40-7	gas	10.271	1
52	ClNO <sub>2</sub>	nitryl chloride	13444-90-1	gas	0.530	1	132	KF	potassium fluoride	7789-23-3	gas	8.585	1
53	CINS	thionitrosyl chloride	---	gas	1.870	1	133	KI	potassium iodide	7681-11-0	gas	10.800	1
54	ClO	chlorine oxide	---	gas	1.297	1	134	KOH	potassium hydroxide	1310-58-3	gas	7.415	1
55	ClO <sub>2</sub>	chlorine dioxide	10049-04-4	gas	1.784	1	135	Kr	krypton	7439-90-9	gas	0.000	1
56	Cl <sub>2</sub>	chlorine	7782-50-5	gas	0.000	1	136	LaO	lanthanum monooxide	---	gas	3.207	1
57	Cl <sub>2</sub> O <sub>7</sub>	chlorine heptoxide	10294-48-1	in CCl <sub>4</sub>	0.720	1	137	LiBr	lithium bromide	7550-35-8	gas	7.268	1
58	CrO	chromium (I) oxide	---	gas	3.880	1	138	LiCl	lithium chloride	7447-41-8	gas	7.129	1
59	CrO <sub>2</sub> Cl <sub>2</sub>	chromium oxychloride	14977-61-8	in CCl <sub>4</sub>	0.470	1	139	LiF	lithium fluoride	7789-24-4	gas	6.327	1
60	CsCl	cesium chloride	7647-17-8	gas	10.387	1	140	LiH	lithium hydride	7580-67-8	gas	5.884	1
61	CsF	cesium fluoride	13400-13-0	gas	7.884	1	141	LiI	lithium iodide	10377-51-2	gas	7.428	1
62	CsI	cesium iodide	7789-17-5	gas	10.200	1	142	LiK	lithium potassium	---	gas	3.450	1
63	CsNa	cesium sodium	---	gas	4.750	1	143	LiO	lithium monoxide	---	gas	6.840	1
64	CuCl	cuprous chloride	7758-89-6	gas	1.820	2	144	LiOH	lithium hydroxide	1310-65-2	gas	4.754	1
65	CuF	copper (i) fluoride	13478-41-6	gas	5.770	1	145	LiRb	lithium rubidium	---	gas	4.000	1
66	CuO	copper (ii) oxide	1317-38-0	gas	4.500	1	146	MgO	magnesium oxide	1309-48-4	gas	6.200	1
67	D <sub>2</sub> O	deuterium oxide	7789-20-0	gas	1.870	1	147	NCIO	nitrosyl chloride	2696-92-6	gas	1.901	1
68	FH <sub>2</sub> N	fluoroamide	---	gas	2.370	1	148	NCI <sub>3</sub>	nitrogen trichloride	10025-85-1	in benzene	0.600	1
69	FNO	nitrosyl fluoride	7789-25-5	gas	1.730	1	149	ND <sub>3</sub>	heavy ammonia	---	gas	1.500	1
70	FNO <sub>2</sub>	nitryl fluoride	10022-50-1	gas	0.466	1	150	NF <sub>3</sub>	nitrogen trifluoride	7783-54-2	gas	0.235	1
71	FNS	thionitrosyl fluoride	---	gas	1.902	1	151	NH	imidogen	---	gas	1.390	1
72	FN <sub>3</sub>	fluorine azide	---	gas	1.300	1	152	NHF <sub>2</sub>	difluoramine	10405-27-3	gas	1.920	1
73	FO	fluorine oxide	---	gas	0.004	1	153	NHO	nitrosyl hydride	---	gas	1.620	1
74	FS	fluorine sulfide	---	gas	0.794	1	154	NH <sub>3</sub>	ammonia	7664-41-7	gas	1.472	1
75	F <sub>2</sub>	fluorine	7782-41-4	gas	0.000	1	155	NH <sub>4</sub> Br	ammonium bromide	12124-97-9	in dioxane	6.750	1
76	F <sub>2</sub> O	fluorine oxide	7783-41-7	gas	0.308	1	156	NH <sub>6</sub> PO <sub>4</sub>	ammonium dihydrogen phosphate	7722-76-1	gas	2.770	1
77	F <sub>2</sub> O <sub>2</sub>	difluorine dioxide	7783-44-0	gas	1.440	1	157	NO	nitric oxide	10102-43-9	gas	0.153	1
78	FeCl <sub>3</sub>	ferric chloride	7705-08-0	in dioxane	1.280	1	158	NOF <sub>3</sub>	trifluoramine oxide	13847-65-9	gas	0.039	1
79	GaCl <sub>3</sub>	gallium trichloride	13450-90-3	gas	0.850	1	159	NO <sub>2</sub>	nitrogen dioxide	10102-44-0	gas	0.315	1
80	GaF	gallium (i) fluoride	---	gas	2.450	1	160	NP	nitrogen phosphorous	---	gas	2.747	1

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ID	FORMULA	NAME	CAS No	state	Debye	code	ID	FORMULA	NAME	CAS No	state	Debye	code
161	NS	nitrogen sulfide	---	gas	1.810	1	224	SbCl5	antimony pentachloride	7647-18-9	gas	0.000	1
162	N2	nitrogen	7727-37-9	gas	0.000	1	225	SbH3	stibine	7803-52-3	gas	0.120	1
163	N2F2	cis-difluorodiazine	13812-43-6	gas	0.160	1	226	SbI3	antimony triiodide	7790-44-5	in benzene	0.400	1
164	N2F4	tetrafluorohydrazine	10036-47-2	gas	0.257	1	227	SeF4	selenium tetrafluoride	13465-66-2	gas	1.780	1
165	N2H4	hydrazine	302-01-2	gas	1.751	1	228	SeF6	selenium hexafluoride	7783-79-1	gas	0.000	1
166	N2O	nitrous oxide	10024-97-2	gas	0.161	1	229	SeOCl2	selenium oxychloride	7791-23-3	in benzene	2.640	1
167	N2O3	nitrogen trioxide	10544-73-7	gas	2.122	1	230	SeO2	selenium dioxide	7446-08-4	gas	2.620	1
168	N2O4	nitrogen tetraoxide	10544-72-6	gas	0.000	1	231	SiBrF3	silane, bromotrifluoro	---	gas	0.830	1
169	N2O5	nitrogen pentoxide	10102-03-1	in CCl4	1.400	1	232	SiCH3Cl3	silane, methyltrichloro	75-79-6	gas	1.910	1
170	Na	sodium	7440-23-5	gas	0.000	1	233	SiCH4Cl2	silane, methyldichloro	75-54-7	in benzene	1.910	1
171	NaBr	sodium bromide	7647-15-6	in benzene	9.118	1	234	SiC2H5Cl3	silane, ethyltrichloro	115-21-9	gas	2.030	2
172	NaCl	sodium chloride	7647-14-5	gas	9.001	1	235	SiC2H6Cl2	silane, dimethyldichloro	75-78-5	in benzene	1.889	1
173	NaF	sodium fluoride	7681-49-4	gas	8.156	1	236	SiC3H10	silane, trimethyl	933-07-7	gas	0.525	1
174	NaI	sodium iodide	7681-82-5	gas	4.887	1	237	SiC7H8Cl2	silane, methylphenyldichloro	149-74-6	in benzene	2.401	1
175	NaK	sodium potassium	---	gas	2.693	1	238	SiC8H20	silane, tetraethyl	631-36-7	in benzene	0.390	1
176	NaLi	sodium lithium	---	gas	0.463	1	239	SiCIC3H9	chlorotrimethylsilane	75-77-4	in benzene	2.081	1
177	NaRb	sodium rubidium	---	gas	3.100	1	240	SiClF3	silane, chlorotrifluoro	14049-36-6	gas	0.636	1
178	Ne	neon	7440-01-9	gas	0.000	1	241	SiCl3F	silane, trichlorofluoro	14965-52-7	gas	0.490	1
179	NiC4O4	nickel carbonyl	13463-39-3	in CCl4	0.000	1	242	SiCl4	silicon tetrachloride	10026-04-7	gas	0.000	1
180	O2	oxygen	7782-44-7	gas	0.000	1	243	SiF2	difluorosilylene	---	gas	1.230	1
181	O3	ozone	10028-15-6	gas	0.540	1	244	SiF4	silicon tetrafluoride	7783-61-1	gas	0.000	1
182	OsO4	osmium tetroxide	20816-12-0	gas	0.000	1	245	SiHBr3	silane, tribromo	7789-57-3	in heptane	0.790	1
183	P	phosphorus (white)	7723-14-0	gas	0.000	1	246	SiHCl3	silane, trichloro	10025-78-2	gas	0.860	1
184	P	phosphorus (red)	7723-14-0	gas	0.000	1	247	SiHF3	silane, trifluoro	13465-71-9	gas	1.270	1
185	PBr3	phosphorus tribromide	7789-60-8	gas	0.560	1	248	SiH2Cl2	silane, dichloro	4109-96-0	gas	1.170	1
186	PC3H9O4	phosphate, trimethyl	512-56-1	in benzene	3.088	1	249	SiH2F2	silane, difluoro	13824-36-7	gas	1.550	1
187	PC6H15O4	phosphate, triethyl	78-40-0	in benzene	3.088	1	250	SiH3Br	silane, monobromo	13465-73-1	gas	1.320	1
188	PCl3	phosphorus (iii) chloride	7719-12-2	gas	0.779	1	251	SiH3Cl	silane, monochloro	13465-78-6	gas	1.310	1
189	PCl5	phosphorus pentachloride	10026-13-8	gas	0.900	1	252	SiH3F	silane, monofluoro	13537-33-2	gas	1.298	1
190	PF3	phosphorus (iii) fluoride	7783-55-3	gas	1.030	1	253	SiH4	silane	7803-62-5	gas	0.000	1
191	PF3O	phosphorus oxyfluoride	13478-20-1	gas	1.869	1	254	SiF3I	silane, trifluoroiodo	---	gas	1.110	1
192	PH3	phosphine	7803-51-2	gas	0.570	1	255	SiO	silicon monoxide	10097-28-6	gas	3.908	1
193	PI3	phosphorus (iii) iodide	13455-01-1	gas	0.000	1	256	SiO2	silicon dioxide (alpha quartz)	14808-60-7	quartz	0.579	1
194	PO	phosphorus monoxide	---	gas	1.880	1	257	SiS	silicon monosulfide	12504-41-5	gas	1.730	1
195	POCl3	phosphorus oxychloride	10025-87-3	gas	2.540	1	258	Si2C6H18O	disiloxane, hexamethyl	107-46-0	gas	0.660	1
196	PSCl3	phosphorus thiocloride	3982-91-0	gas	1.420	1	259	Si2C6H19N	disilazane, hexamethyl	999-97-3	in benzene	0.420	1
197	PSF3	phosphorus (v) sulfide trifluoride	2404-52-6	gas	0.640	1	260	Si2H3F3	1,1,1,-trifluorodisilane	---	gas	2.030	1
198	PbC8H20	tetraethyl lead	78-00-2	gas	0.300	1	261	Si2H6	disilane	1590-87-0	gas	0.000	1
199	PbO	lead oxide	1317-36-8	gas	4.640	1	262	Si2H6O	disiloxane	13597-73-4	gas	0.240	1
200	PbS	lead sulfide	1314-87-0	gas	3.590	1	263	SnBr4	stannic bromide	7789-67-5	gas	0.000	1
201	RbBr	rubidium bromide	7789-39-1	gas	10.900	1	264	SnCl4	stannic chloride	7646-78-8	gas	0.000	1
202	RbCl	rubidium chloride	7791-11-9	gas	10.510	1	265	SnI4	stannic iodide	7790-47-8	gas	0.000	1
203	RbF	rubidium fluoride	13446-74-7	gas	8.546	1	266	SnO	tin (ii) oxide	21651-19-4	gas	4.320	1
204	RbI	rubidium iodide	7790-29-6	gas	11.500	1	267	SnS	tin (ii) sulfide	1314-95-0	gas	3.180	1
205	S	sulfur	7704-34-9	gas	0.000	1	268	SrO	strontium oxide	1314-11-0	gas	8.900	1
206	SCl2	sulfur dichloride	10545-99-0	gas	0.360	1	269	TeCl4	tellurium tetrachloride	10026-07-0	gas	0.000	1
207	SCl2O	thionyl chloride	7719-09-7	gas	1.451	1	270	TeF6	tellurium hexafluoride	7783-80-4	gas	0.000	1
208	SF2	sulfur (ii) fluoride	13814-25-0	gas	1.050	1	271	TiCl4	titanium tetrachloride	7550-45-0	liquid	0.000	1
209	SF4	sulfur tetrafluoride	7783-60-0	gas	0.632	1	272	TiO	titanium (ii) oxide	12137-20-1	gas	2.960	1
210	SF6	sulfur hexafluoride	2551-62-4	gas	0.000	1	273	TlBr	thallous bromide	7789-40-4	gas	4.490	1
211	SO	sulfur monoxide	---	gas	1.550	1	274	TlCl	thallium chloride	7791-12-0	gas	4.543	1
212	SOBr2	thionyl bromide	507-16-4	gas	9.110	1	275	TlF	thallium (i) fluoride	7789-27-7	gas	4.228	1
213	SOCI2	thionyl chloride	7719-09-7	gas	1.450	1	276	TlI	thallium iodide	7790-30-9	gas	4.610	1
214	SOF2	thionyl fluoride	7783-42-8	gas	1.630	1	277	UF6	uranium fluoride	7783-81-5	gas	0.000	1
215	SO2	sulfur dioxide	7446-09-5	gas	1.631	1	278	VCi4	vanadium tetrachloride	7632-51-1	gas	0.000	1
216	SO2Cl2	sulfuryl chloride	7791-25-5	gas	1.811	1	279	VOCi3	vanadium oxytrichloride	7727-18-6	in CCl4	0.300	1
217	SO2F2	sulfuryl fluoride	2699-79-8	gas	1.120	1	280	Xe	xenon	7440-63-3	gas	0.000	1
218	SO3	sulfur trioxide	7446-11-9	gas	0.000	1	281	YO	yttrium monoxide	---	gas	4.524	1
219	S2Cl2	sulfur monochloride	10025-67-9	gas	1.000	1	282	ZrBr4	zirconium bromide	13777-25-8	in dioxane	4.680	1
220	S2F10	sulfur decafluoride	5714-22-7	gas	0.000	1	283	ZrCl4	zirconium chloride	10026-11-6	in dioxane	5.940	1
221	S2O	disulfur oxide	20901-21-7	gas	1.470	1	284	ZrI4	zirconium iodide	13986-26-0	in dioxane	5.360	1
222	SbBr3	antimony tribromide	7789-61-9	in dioxane	3.300	1	285	ZrO	zirconium (ii) oxide	---	gas	2.550	1
223	SbCl3	antimony trichloride	10025-91-9	gas	3.927	1	286	ZrO2	zirconium (iv) oxide	1314-23-4	gas	7.800	1

Code: 1 - data, 2 - estimate

\* Use ID or CAS No for complete name (See Chapter 1 of this book).

Table 17 Dipole Moment – Organic Compounds

Dipole Moment							Dipole Moment						
ID	FORMULA	NAME	CAS No	state	Debye	code	ID	FORMULA	NAME	CAS No	state	Debye	code
1	CBrCl <sub>2</sub> F	bromodichlorofluoromethane	353-58-2	gas	0.845	2	81	C <sub>2</sub> H <sub>2</sub> Br <sub>4</sub>	1,1,2,2-tetrabromoethane	79-27-6	in hexane	1.301	1
2	CBrCl <sub>3</sub>	bromotrichloromethane	75-62-7	in benzene	0.590	1	82	C <sub>2</sub> H <sub>2</sub> ClF <sub>3</sub>	2-chloro-1,1,1-trifluoroethane	75-88-7	gas	1.649	1
3	CBrF <sub>3</sub>	bromotrifluoromethane	75-63-8	gas	0.651	2	83	C <sub>2</sub> H <sub>2</sub> Cl <sub>2</sub>	1,1-dichloroethylene	75-35-4	gas	1.340	1
4	CBr <sub>2</sub> F <sub>2</sub>	dibromodifluoromethane	75-61-6	gas	0.660	1	84	C <sub>2</sub> H <sub>2</sub> Cl <sub>2</sub>	cis-1,2-dichloroethylene	156-59-2	gas	1.901	1
5	CClF <sub>3</sub>	chlorotrifluoromethane	75-72-9	gas	0.510	1	85	C <sub>2</sub> H <sub>2</sub> Cl <sub>2</sub>	trans-1,2-dichloroethylene	156-60-5	in benzene	0.000	1
6	CClN	cyanogen chloride	506-77-4	gas	2.820	1	86	C <sub>2</sub> H <sub>2</sub> Cl <sub>2</sub> O	chloroacetyl chloride	79-04-9	gas	2.218	1
7	CCl <sub>2</sub> F <sub>2</sub>	dichlorodifluoromethane	75-71-8	gas	0.510	1	87	C <sub>2</sub> H <sub>2</sub> Cl <sub>2</sub> O	dichloroacetaldehyde	79-02-7	in benzene	2.359	1
8	CCl <sub>2</sub> O	phosgene	75-44-5	gas	1.170	1	88	C <sub>2</sub> H <sub>2</sub> Cl <sub>3</sub> F	1,1,1-trichloro-2-fluoroethane	2366-36-1	gas	1.874	2
9	CCl <sub>3</sub> F	trichlorofluoromethane	75-69-4	gas	0.450	1	89	C <sub>2</sub> H <sub>2</sub> Cl <sub>4</sub>	1,1,1,2-tetrachloroethane	630-20-6	gas	1.289	1
10	CCl <sub>4</sub>	carbon tetrachloride	56-23-5	gas	0.000	1	90	C <sub>2</sub> H <sub>2</sub> Cl <sub>4</sub>	1,1,2,2-tetrachloroethane	79-34-5	gas	1.289	1
11	CF <sub>2</sub> O	carbonyl fluoride	353-50-4	gas	0.950	1	91	C <sub>2</sub> H <sub>2</sub> F <sub>2</sub>	1,1-difluoroethylene	75-38-7	gas	1.379	1
12	CF <sub>4</sub>	carbon tetrafluoride	75-73-0	gas	0.000	1	92	C <sub>2</sub> H <sub>2</sub> F <sub>2</sub>	cis-1,2-difluoroethene	1630-77-9	gas	2.420	1
13	CHBrF <sub>2</sub>	bromodifluoromethane	1511-62-2	gas	1.499	1	93	C <sub>2</sub> H <sub>2</sub> F <sub>2</sub>	trans-1,2-difluoroethene	1630-78-0	in benzene	0.550	1
14	CHBr <sub>3</sub>	bromoform	75-25-2	gas	0.990	1	94	C <sub>2</sub> H <sub>2</sub> F <sub>4</sub>	1,1,1,2-tetrafluoroethane	811-97-2	gas	2.058	1
15	CHClF <sub>2</sub>	chlorodifluoromethane	75-45-6	gas	1.458	1	95	C <sub>2</sub> H <sub>2</sub> F <sub>4</sub>	1,1,2,2-tetrafluoroethane	359-35-3	gas	0.992	1
16	CHCl <sub>2</sub> F	dichlorofluoromethane	75-43-4	gas	1.289	1	96	C <sub>2</sub> H <sub>2</sub> F <sub>4</sub> O	tetrafluorodimethyl ether	1691-17-4	gas	1.739	1
17	CHCl <sub>3</sub>	chloroform	67-66-3	gas	1.010	1	97	C <sub>2</sub> H <sub>2</sub> O	ketene	463-51-4	gas	1.420	1
18	CHF <sub>3</sub>	fluoroform	75-46-7	gas	1.649	1	98	C <sub>2</sub> H <sub>2</sub> O <sub>4</sub>	oxalic acid	144-62-7	in dioxane	2.630	1
19	CHI <sub>3</sub>	iodoform	75-47-8	in benzene	0.900	1	99	C <sub>2</sub> H <sub>3</sub> Br	vinyl bromide	593-60-2	gas	1.421	1
20	CHN	hydrogen cyanide	74-90-8	gas	2.980	1	100	C <sub>2</sub> H <sub>3</sub> Cl	vinyl chloride	75-01-4	gas	1.451	1
21	CH <sub>2</sub> BrCl	bromochloromethane	74-97-5	in benzene	1.661	1	101	C <sub>2</sub> H <sub>3</sub> ClF <sub>2</sub>	1-chloro-1,1-difluoroethane	75-68-3	gas	2.141	1
22	CH <sub>2</sub> Br <sub>2</sub>	dibromomethane	74-95-3	gas	1.430	1	102	C <sub>2</sub> H <sub>3</sub> ClO	acetyl chloride	75-36-5	gas	2.719	1
23	CH <sub>2</sub> ClF	chlorofluoromethane	593-70-4	gas	1.820	1	103	C <sub>2</sub> H <sub>3</sub> ClO	chloroacetaldehyde	107-20-0	in benzene	1.991	1
24	CH <sub>2</sub> ClNO	carbamic chloride	463-72-9	gas	4.017	2	104	C <sub>2</sub> H <sub>3</sub> ClO <sub>2</sub>	chloroacetic acid	79-11-8	in benzene	2.310	1
25	CH <sub>2</sub> Cl <sub>2</sub>	dichloromethane	75-09-2	gas	1.601	1	105	C <sub>2</sub> H <sub>3</sub> ClO <sub>2</sub>	methyl chloroformate	79-22-1	in benzene	2.221	1
26	CH <sub>2</sub> F <sub>2</sub>	difluoromethane	75-10-5	gas	1.979	1	106	C <sub>2</sub> H <sub>3</sub> Cl <sub>2</sub> F	1,1-dichloro-1-fluoroethane	1717-00-6	gas	2.014	1
27	CH <sub>2</sub> I <sub>2</sub>	diiodomethane	75-11-6	in benzene	1.220	1	107	C <sub>2</sub> H <sub>3</sub> Cl <sub>3</sub>	1,1,1-trichloroethane	71-55-6	gas	1.781	1
28	CH <sub>2</sub> O	formaldehyde	50-00-0	gas	2.330	1	108	C <sub>2</sub> H <sub>3</sub> Cl <sub>3</sub>	1,1,2-trichloroethane	79-00-5	gas	1.250	1
29	CH <sub>2</sub> O <sub>2</sub>	formic acid	64-18-6	gas	1.415	1	109	C <sub>2</sub> H <sub>3</sub> Cl <sub>3</sub> Si	trichlorovinylsilane	75-94-5	in benzene	2.039	1
30	CH <sub>3</sub> Br	methyl bromide	74-83-9	gas	1.811	1	110	C <sub>2</sub> H <sub>3</sub> F	vinyl fluoride	75-02-5	gas	1.430	1
31	CH <sub>3</sub> Cl	methyl chloride	74-87-3	gas	1.871	1	111	C <sub>2</sub> H <sub>3</sub> F <sub>3</sub>	1,1,1-trifluoroethane	420-46-2	gas	2.320	1
32	CH <sub>3</sub> ClO <sub>2</sub> S	methanesulfonyl chloride	124-63-0	gas	3.148	1	112	C <sub>2</sub> H <sub>3</sub> F <sub>3</sub>	1,1,2-trifluoroethane	430-66-0	gas	1.679	1
33	CH <sub>3</sub> Cl <sub>3</sub> Si	methyl trichlorosilane	75-79-6	gas	1.910	1	113	C <sub>2</sub> H <sub>3</sub> N	acetonitrile	75-05-8	gas	3.920	1
34	CH <sub>3</sub> F	methyl fluoride	593-53-3	gas	1.851	1	114	C <sub>2</sub> H <sub>3</sub> NO	methyl isocyanate	624-83-9	gas	2.800	1
35	CH <sub>3</sub> I	methyl iodide	74-88-4	gas	1.619	1	115	C <sub>2</sub> H <sub>4</sub>	ethylene	74-85-1	gas	0.000	1
36	CH <sub>3</sub> NO	formamide	75-12-7	gas	3.730	1	116	C <sub>2</sub> H <sub>4</sub> Br <sub>2</sub>	1,1-dibromoethane	557-91-5	in benzene	2.141	1
37	CH <sub>3</sub> NO <sub>2</sub>	nitromethane	75-52-5	gas	3.460	2	117	C <sub>2</sub> H <sub>4</sub> Br <sub>2</sub>	1,2-dibromoethane	106-93-4	gas	1.010	1
38	CH <sub>3</sub> NO <sub>3</sub>	methyl nitrate	598-58-3	in benzene	2.880	1	118	C <sub>2</sub> H <sub>4</sub> Cl <sub>2</sub>	1,1-dichloroethane	75-34-3	gas	2.060	1
39	CH <sub>4</sub>	methane	74-82-8	gas	0.000	1	119	C <sub>2</sub> H <sub>4</sub> Cl <sub>2</sub>	1,2-dichloroethane	107-06-2	gas	1.439	1
40	CH <sub>4</sub> Cl <sub>2</sub> Si	methyl dichlorosilane	75-54-7	in benzene	1.910	1	120	C <sub>2</sub> H <sub>4</sub> Cl <sub>2</sub> O	bis(chloromethyl) ether	542-88-1	gas	0.989	1
41	CH <sub>4</sub> N <sub>2</sub> O	urea	57-13-6	in dioxane	4.557	1	121	C <sub>2</sub> H <sub>4</sub> F <sub>2</sub>	1,1-difluoroethane	75-37-6	gas	2.262	1
42	CH <sub>4</sub> N <sub>2</sub> S	ammonium thiocyanate	1762-95-4	in benzene	5.066	1	122	C <sub>2</sub> H <sub>4</sub> F <sub>2</sub>	1,2-difluoroethane	624-72-6	gas	2.671	1
43	CH <sub>4</sub> O	methyl alcohol	67-56-1	gas	1.700	1	123	C <sub>2</sub> H <sub>4</sub> I <sub>2</sub>	1,2-diiodoethane	624-73-7	in benzene	1.300	1
44	CH <sub>4</sub> S	methyl mercaptan	74-93-1	gas	1.520	1	124	C <sub>2</sub> H <sub>4</sub> N <sub>2</sub>	aminoacetonitrile	540-61-4	gas	2.641	1
45	CH <sub>5</sub> ClSi	methyl chlorosilane	993-00-0	in cyclohexane	1.931	1	125	C <sub>2</sub> H <sub>4</sub> N <sub>2</sub> O <sub>6</sub>	ethylene glycol dinitrate	628-96-6	in benzene	3.568	1
46	CH <sub>5</sub> N	methylamine	74-89-5	gas	1.310	1	126	C <sub>2</sub> H <sub>4</sub> N <sub>4</sub>	cyanoguanidine	461-58-5	in dioxane	8.214	1
47	CH <sub>6</sub> Si	methyl silane	992-94-9	gas	0.735	1	127	C <sub>2</sub> H <sub>4</sub> O	acetaldehyde	75-07-0	gas	2.689	1
48	CN <sub>4</sub> O <sub>8</sub>	tetranitromethane	509-14-8	gas	0.000	1	128	C <sub>2</sub> H <sub>4</sub> O	ethylene oxide	75-21-8	gas	1.889	1
49	CO	carbon monoxide	630-08-0	gas	0.112	1	129	C <sub>2</sub> H <sub>4</sub> O <sub>2</sub>	acetic acid	64-19-7	gas	1.739	1
50	COS	carbonyl sulfide	463-58-1	gas	0.711	1	130	C <sub>2</sub> H <sub>4</sub> O <sub>2</sub>	methyl formate	107-31-3	gas	1.770	1
51	CO <sub>2</sub>	carbon dioxide	124-38-9	gas	0.000	1	131	C <sub>2</sub> H <sub>4</sub> O <sub>2</sub> S	thioglycolic acid	68-11-1	in dioxane	2.281	1
52	CS <sub>2</sub>	carbon disulfide	75-15-0	gas	0.000	1	132	C <sub>2</sub> H <sub>4</sub> O <sub>3</sub>	glycolic acid	79-14-1	gas	2.156	1
53	C <sub>2</sub> BrF <sub>3</sub>	bromotrifluoroethylene	598-73-2	gas	0.760	1	133	C <sub>2</sub> H <sub>4</sub> O <sub>3</sub>	peroxyacetic acid	79-21-0	gas	2.383	1
54	C <sub>2</sub> Br <sub>2</sub> F <sub>4</sub>	1,2-dibromotetrafluoroethane	124-73-2	gas	0.030	2	134	C <sub>2</sub> H <sub>4</sub> S	ethylene sulfide	420-12-2	in benzene	1.769	1
55	C <sub>2</sub> ClF <sub>3</sub>	chlorotrifluoroethylene	79-38-9	gas	0.399	1	135	C <sub>2</sub> H <sub>5</sub> Br	bromoethane	74-96-4	gas	2.030	1
56	C <sub>2</sub> ClF <sub>5</sub>	chloropentafluoroethane	76-15-3	gas	0.519	1	136	C <sub>2</sub> H <sub>5</sub> Cl	ethyl chloride	75-00-3	gas	2.051	1
57	C <sub>2</sub> Cl <sub>2</sub> F <sub>4</sub>	1,2-dichloro-1,1,2,2-tetrafluoroethane	76-14-2	gas	0.669	1	137	C <sub>2</sub> H <sub>5</sub> ClO	2-chloroethanol	107-07-3	gas	1.780	1
58	C <sub>2</sub> Cl <sub>2</sub> F <sub>4</sub>	1,1-dichloro-1,2,2,2-tetrafluoroethane	374-07-2	gas	0.555	2	138	C <sub>2</sub> H <sub>5</sub> ClO	chloromethyl methyl ether	107-30-2	gas	1.760	1
59	C <sub>2</sub> Cl <sub>3</sub> F <sub>3</sub>	1,1,1-trichloro-2,2,2-trifluoroethane	354-58-5	gas	0.740	1	139	C <sub>2</sub> H <sub>5</sub> ClO <sub>2</sub> S	ethanesulfonyl chloride	594-44-5	gas	3.897	1
60	C <sub>2</sub> Cl <sub>4</sub>	tetrachloroethylene	127-18-4	in benzene	0.000	1	140	C <sub>2</sub> H <sub>5</sub> Cl <sub>3</sub> Si	trichloroethylsilane	115-21-9	gas	2.030	2
61	C <sub>2</sub> Cl <sub>4</sub> F <sub>2</sub>	1,1,2,2-tetrachloro-1,2-difluoroethane	76-12-0	gas	1.259	2	141	C <sub>2</sub> H <sub>5</sub> F	ethyl fluoride	353-36-6	gas	1.940	1
62	C <sub>2</sub> Cl <sub>4</sub> F <sub>2</sub>	1,1,1,2-tetrachloro-2,2-difluoroethane	76-11-9	gas	1.391	2	142	C <sub>2</sub> H <sub>5</sub> I	ethyl iodide	75-03-6	gas	1.910	1
63	C <sub>2</sub> Cl <sub>4</sub> O	trichloroacetyl chloride	76-02-8	in benzene	1.199	1	143	C <sub>2</sub> H <sub>5</sub> N	ethyleimine	151-56-4	gas	1.900	1
64	C <sub>2</sub> Cl <sub>5</sub> F	pentachlorofluoroethane	354-56-3	gas	0.513	2	144	C <sub>2</sub> H <sub>5</sub> NO	acetaldoxime	107-29-9	gas	0.827	1
65	C <sub>2</sub> Cl <sub>6</sub>	hexachloroethane	67-72-1	gas	0.000	1	145	C <sub>2</sub> H <sub>5</sub> NO	acetamide	60-35-5	gas	3.747	1
66	C <sub>2</sub> F <sub>6</sub>	hexafluoroethane	76-16-4	gas	0.000	1	146	C <sub>2</sub> H <sub>5</sub> NO	N-methylformamide	123-39-7	gas	3.830	1
67	C <sub>2</sub> HBrClF <sub>3</sub>	halothane	151-67-7	gas	2.066	2	147	C <sub>2</sub> H <sub>5</sub> NO <sub>2</sub>	nitroethane	79-24-3	gas	3.657	1
68	C <sub>2</sub> HClF <sub>2</sub>	2-chloro-1,1-difluoroethylene	359-10-4	gas	1.289	2	148	C <sub>2</sub> H <sub>5</sub> NO <sub>2</sub>	glycine	56-40-6	in water	12.801	1
69	C <sub>2</sub> HClF <sub>4</sub>	2-chloro-1,1,1,2-tetrafluoroethane	2837-89-0	gas	1.469	1	149	C <sub>2</sub> H <sub>5</sub> NO <sub>3</sub>	ethyl nitrate	625-58-1	in benzene	2.930	1
70	C <sub>2</sub> HCl <sub>2</sub> F <sub>3</sub>	1,1-dichloro-1,2,2-trifluoroethane	812-04-4	gas	1.394	2	150	C <sub>2</sub> H <sub>6</sub>	ethane	74-84-0	gas	0.000	1
71	C <sub>2</sub> HCl <sub>2</sub> F <sub>3</sub>	1,2-dichloro-1,1,2-trifluoroethane	354-23-4	gas	1.302	1	151	C <sub>2</sub> H <sub>6</sub> AlCl	dimethylaluminum chloride	1184-58-3	gas	1.631	1
72	C <sub>2</sub> HCl <sub>2</sub> F <sub>3</sub>	2,2-dichloro-1,1,1-trifluoroethane	306-83-2	gas	1.356	1	152	C <sub>2</sub> H <sub>6</sub> Cl <sub>2</sub> Si	dichlorodimethylsilane	75-78-5	in benzene	1.889	1
73	C <sub>2</sub> HCl <sub>3</sub>	trichloroethylene	79-01-6	liquid	0.770	1	153	C <sub>2</sub> H <sub>6</sub> O	ethyl alcohol	64-17-5	gas	1.691	1
74	C <sub>2</sub> HCl <sub>3</sub> O	dichloroacetyl chloride	79-36-7	in CCl <sub>4</sub>	1.580	1	154	C <sub>2</sub> H <sub>6</sub> O	dimethyl ether	115-10-6	gas	1.301	1
75	C <sub>2</sub> HCl <sub>3</sub> O	trichloroacetaldehyde	75-87-6	gas	1.961	1	155	C <sub>2</sub> H <sub>6</sub> OS	dimethyl sulfoxide	67-68-5	gas	3.957	1
76	C <sub>2</sub> HCl <sub>3</sub> O <sub>2</sub>	trichloroacetic acid	76-03-9	in benzene	1.109	1	156	C <sub>2</sub> H <sub>6</sub> O <sub>2</sub>	ethylene glycol	107-21-1	gas	2.410	1
77	C <sub>2</sub> HCl <sub>5</sub>	pentachloroethane	76-01-7	gas	0.920	1	157	C <sub>2</sub> H <sub>6</sub> O <sub>4</sub> S	dimethyl sulfate	77-78-1	in benzene	4.167	1
78	C <sub>2</sub> HF <sub>3</sub> O <sub>2</sub>	trifluoroacetic acid	76-05-1	gas	2.280	1	158	C <sub>2</sub> H <sub>6</sub> O <sub>4</sub> S	ethyl sulfate	540-82-9	gas	4.257	2
79	C <sub>2</sub> HF <sub>5</sub>	pentafluoroethane	354-33-6	gas</									

Table 17 Dipole Moment – Organic Compounds

Dipole Moment							Dipole Moment						
ID	FORMULA	NAME	CAS No	state	Debye	code	ID	FORMULA	NAME	CAS No	state	Debye	code
161	C2H6S2	dimethyl disulfide	624-92-0	gas	1.985	1	241	C3H7NO2	2-nitropropane	79-46-9	gas	3.717	1
162	C2H6S2	1,2-ethanedithiol	540-63-6	in benzene	1.721	1	242	C3H7NO3	propyl nitrate	627-13-4	in benzene	3.010	1
163	C2H7ClSi	chlorodimethylsilane	1066-35-9	gas	1.280	1	243	C3H8	propane	74-98-6	gas	0.000	1
164	C2H7N	ethylamine	75-04-7	gas	1.220	1	244	C3H8O	propyl alcohol	71-23-8	gas	1.679	1
165	C2H7N	dimethylamine	124-40-3	gas	1.031	1	245	C3H8O	isopropyl alcohol	67-63-0	gas	1.660	1
166	C2H7NO	monoethanolamine	141-43-5	in dioxane	0.776	1	246	C3H8O	methyl ethyl ether	540-67-0	gas	1.229	1
167	C2H8N2	ethylenediamine	107-15-3	in benzene	1.901	1	247	C3H8O2	2-methoxyethanol	109-86-4	in benzene	2.129	1
168	C2H8Si	dimethyl silane	1111-74-6	gas	0.749	1	248	C3H8O2	methylal	109-87-5	gas	0.740	1
169	C2N2	cyanogen	460-19-5	gas	0.000	1	249	C3H8O2	1,2-propanediol (propylene glycol)	57-55-6	liquid	3.630	1
170	C3Cl2F6	1,2-dichlorohexafluoropropane	661-97-2	gas	0.690	2	250	C3H8O2	1,3-propanediol	504-63-2	in dioxane	2.521	1
171	C3F6O	hexafluoroacetone	684-16-2	gas	0.648	1	251	C3H8O3	glycerol	56-81-5	in dioxane	2.680	1
172	C3F6O	trifluoromethyl trifluorovinyl ether	1187-93-5	gas	0.402	1	252	C3H8S	propyl mercaptan	107-03-9	in benzene	1.541	1
173	C3F8	octafluoropropane	76-19-7	gas	0.000	1	253	C3H8S	isopropyl mercaptan	75-33-2	in benzene	1.550	1
174	C3HF7	heptafluoropropane	431-89-0	gas	1.940	2	254	C3H8S	methyl ethyl sulfide	624-89-5	gas	1.559	1
175	C3H2F6	1,1,1,2,3,3-hexafluoropropane	431-63-0	gas	0.201	2	255	C3H9Al	trimethyl aluminum	75-24-1	gas	1.430	1
176	C3H2N2	malononitrile	109-77-3	gas	3.717	1	256	C3H9ClSi	trimethylchlorosilane	75-77-4	gas	2.081	1
177	C3H3Cl	propargyl chloride	624-65-7	gas	1.679	1	257	C3H9N	propylamine	107-10-8	gas	1.169	1
178	C3H3F3	3,3,3-trifluoropropene	677-21-4	gas	2.449	1	258	C3H9N	isopropylamine	75-31-0	in benzene	1.451	1
179	C3H3F5	1,1,1,2,2-pentafluoropropane	1814-88-6	gas	2.341	2	259	C3H9N	trimethylamine	75-50-3	gas	0.612	1
180	C3H3F5O	perfluoroethyl methyl ether	---	gas	1.631	1	260	C3H9NO	3-amino-1-propanol	156-87-6	ns	2.690	1
181	C3H3N	acrylonitrile	107-13-1	gas	3.870	1	261	C3H9NO	methylethanolamine	109-83-1	in benzene	2.159	1
182	C3H3NO	oxazole	288-42-6	gas	1.499	1	262	C3H9O4P	trimethyl phosphate	512-56-1	in benzene	3.088	1
183	C3H3NO	isoxazole	288-14-2	gas	2.899	1	263	C3H10N2	1,3-propanediamine	109-76-2	in benzene	1.841	1
184	C3H4	methylacetylene	74-99-7	gas	0.782	1	264	C3H10O3Si	trimethoxysilane	2487-90-3	gas	1.304	2
185	C3H4	allene	463-49-0	gas	0.000	1	265	C3H10Si	trimethyl silane	993-07-7	gas	0.525	1
186	C3H4Cl2	1,2-dichloropropene	78-88-6	gas	1.739	1	266	C4Cl2F6	1,2-dichloro-1,2,3,3,4,4-hexafluorocyclobuta*	356-18-3	gas	1.589	1
187	C3H4N2	1H-pyrazole	288-13-1	gas	2.215	1	267	C4Cl4S	tetrachlorothiophene	6012-97-1	in benzene	0.929	1
188	C3H4O	acrolein	107-02-8	gas	3.120	1	268	C4Cl6	hexachloro-1,3-butadiene	87-68-3	in benzene	0.200	1
189	C3H4O	propargyl alcohol	107-19-7	in benzene	1.780	1	269	C4F8	octafluorocyclobutane	115-25-3	gas	0.000	1
190	C3H4O2	acrylic acid	79-10-7	gas	1.460	1	270	C4F8O	pentafluoroethyl trifluorovinyl ether	10493-43-3	gas	0.462	2
191	C3H4O2	beta-propiolactone	57-57-8	gas	4.167	1	271	C4F10	decafluorobutane	355-25-9	gas	0.000	2
192	C3H4O2	vinyl formate	692-45-5	in benzene	1.660	1	272	C4H2N2	trans-2-butenedinitrile	764-42-1	gas	0.000	1
193	C3H4O3	ethylene carbonate	96-49-1	gas	4.497	1	273	C4H2N2	maleonitrile	928-53-0	gas	5.996	2
194	C3H4O3	pyruvic acid	127-17-3	gas	2.299	1	274	C4H2O3	maleic anhydride	108-31-6	in dioxane	3.927	1
195	C3H4O4	malonic acid	141-82-2	in dioxane	2.569	1	275	C4H4	vinylacetylene	689-97-4	gas	0.400	1
196	C3H5Br	3-bromo-1-propene	106-95-6	in benzene	1.810	1	276	C4H4N2	succinonitrile	110-61-2	in benzene	3.927	1
197	C3H5Cl	2-chloro-1-propene	557-98-2	gas	1.661	1	277	C4H4N2	pyrazine	290-37-9	gas	0.240	1
198	C3H5Cl	3-chloro-1-propene	107-05-1	gas	1.940	1	278	C4H4N2	pyridazine	289-80-5	gas	4.137	1
199	C3H5ClO	alpha-epichlorohydrin	106-89-8	in CCl4	1.799	1	279	C4H4N2	pyrimidine	289-95-2	gas	2.335	1
200	C3H5ClO2	ethyl chloroformate	541-41-3	gas	2.548	1	280	C4H4O	furan	110-00-9	gas	0.660	1
201	C3H5I	3-iodo-1-propene	556-56-9	in benzene	1.620	1	281	C4H4O2	diketene	674-82-8	gas	3.538	1
202	C3H5N	propionitrile	107-12-0	gas	4.020	1	282	C4H4O3	succinic anhydride	108-30-5	in benzene	3.830	1
203	C3H5N3O9	nitroglycerine	55-63-0	in benzene	3.148	1	283	C4H4O4	fumaric acid	110-17-8	in dioxane	2.450	1
204	C3H6	cyclopropane	75-19-4	gas	0.000	1	284	C4H4O4	maleic acid	110-16-7	in dioxane	3.178	1
205	C3H6	propylene	115-07-1	gas	0.366	1	285	C4H4S	thiophene	110-02-1	gas	0.540	1
206	C3H6Br2	1,2-dibromopropane	78-75-1	gas	1.240	1	286	C4H5Cl	chloroprene	126-99-8	gas	1.430	1
207	C3H6Cl2	1,1-dichloropropane	78-99-9	in benzene	2.081	1	287	C4H5N	trans-crotonitrile	627-26-9	gas	4.527	1
208	C3H6Cl2	1,2-dichloropropane	78-87-5	gas	1.460	1	288	C4H5N	cis-crotonitrile	1190-76-7	gas	4.077	1
209	C3H6Cl2	1,3-dichloropropane	142-28-9	gas	2.081	1	289	C4H5N	methacrylonitrile	126-98-7	gas	3.687	1
210	C3H6Cl2	2,2-dichloropropane	594-20-7	gas	2.090	1	290	C4H5N	vinylacetoneitrile	109-75-1	in benzene	3.418	1
211	C3H6Cl2O	2,3-dichloro-1-propanol	616-23-9	gas	1.559	2	291	C4H5N	pyrrole	109-97-7	gas	1.840	1
212	C3H6Cl2O	1,3-dichloro-2-propanol	96-23-1	in benzene	2.111	1	292	C4H5NO	2-hydroxy-3-butenenitrile	5809-59-6	gas	2.860	2
213	C3H6Cl2Si	dichlorovinylmethylsilane	124-70-9	in benzene	2.290	1	293	C4H5NO2	methyl cyanoacetate	105-34-0	in benzene	3.747	1
214	C3H6O	allyl alcohol	107-18-6	gas	1.600	1	294	C4H5NO2	succinimide	123-56-8	gas	2.392	2
215	C3H6O	propionaldehyde	123-38-6	gas	2.521	1	295	C4H5N3	1,1'-imidodiacetonitrile	628-87-5	in dioxane	3.508	1
216	C3H6O	acetone	67-64-1	gas	2.880	1	296	C4H6	ethylacetylene	107-00-6	gas	0.809	1
217	C3H6O	1,2-propylene oxide	75-56-9	gas	2.009	1	297	C4H6	1,2-butadiene	590-19-2	gas	0.402	1
218	C3H6O	1,3-propylene oxide	503-30-0	gas	1.930	1	298	C4H6	butadiene (1,3 butadiene)	106-99-0	gas	0.000	1
219	C3H6O2	propanoic acid	79-09-4	gas	1.751	1	299	C4H6Cl2	1,4-dichloro-cis-2-butene	1476-11-5	gas	0.000	2
220	C3H6O2	ethyl formate	109-94-4	gas	1.930	1	300	C4H6Cl2	1,4-dichloro-trans-2-butene	110-57-6	gas	0.000	2
221	C3H6O2	methyl acetate	79-20-9	gas	1.679	1	301	C4H6Cl2	3,4-dichloro-1-butene	760-23-6	gas	4.047	1
222	C3H6O2	1-hydroxy-2-propanone	116-09-6	gas	4.287	2	302	C4H6O	cis-crotonaldehyde	15798-64-8	gas	4.047	2
223	C3H6O2	(±)-glycidol	556-52-5	gas	1.439	1	303	C4H6O	trans-crotonaldehyde	123-73-9	gas	3.657	1
224	C3H6O2S	3-mercaptopropionic acid	107-96-0	in dioxane	2.251	1	304	C4H6O	methacrolein	78-85-3	gas	2.680	1
225	C3H6O3	lactic acid	50-21-5	gas	1.139	2	305	C4H6O	2,5-dihydrofuran	1708-29-8	in benzene	1.541	1
226	C3H6O3	methoxyacetic acid	625-45-6	gas	2.560	1	306	C4H6O	2,3-dihydrofuran	1191-99-7	gas	1.319	1
227	C3H6O3	trioxane	110-88-3	gas	2.081	1	307	C4H6O	divinyl ether	109-93-3	in benzene	1.070	1
228	C3H6O3	dimethyl carbonate	616-38-6	gas	0.899	1	308	C4H6O2	2-butyne-1,4-diol	110-65-6	in benzene	2.629	1
229	C3H6S	thiacyclobutane	287-27-4	gas	1.850	1	309	C4H6O2	gamma-butyrolactone	96-48-0	gas	3.820	1
230	C3H7Br	1-bromopropane	106-94-5	gas	2.180	1	310	C4H6O2	trans-2-butenic acid	107-93-7	in benzene	2.129	1
231	C3H7Br	2-bromopropane	75-26-3	gas	2.210	1	311	C4H6O2	methacrylic acid	79-41-4	in benzene	1.649	1
232	C3H7Cl	1-chloropropane	540-54-5	gas	2.051	1	312	C4H6O2	vinyl acetate	108-05-4	in benzene	1.790	1
233	C3H7Cl	2-chloropropane	75-29-6	gas	2.170	1	313	C4H6O3	acetic anhydride	108-24-7	gas	2.788	1
234	C3H7ClO2	3-chloro-1,2-propanediol	96-24-2	gas	3.747	1	314	C4H6O3	propylene carbonate	108-32-7	in benzene	4.550	1
235	C3H7I	1-iodopropane	107-08-4	gas	2.040	1	315	C4H6O4	succinic acid	110-15-6	gas	2.200	1
236	C3H7I	2-iodopropane	75-30-9	in benzene	1.950	1	316	C4H6O4	(acetyloxy)acetic acid	13831-30-6	gas	3.148	2
237	C3H7N	allylamine	107-11-9	in benzene	1.310	1	317	C4H6O5	diglycolic acid	110-99-6	gas	1.070	2
238	C3H7NO	N,N-dimethylformamide	68-12-2	gas	3.807	1	318	C4H6O5	malic acid	6915-15-7	gas	3.118	1
239	C3H7NO	N-methylacetamide	79-16-3	gas	3.717	1	319	C4H6O6	tartaric acid	87-69-4	in dioxane	3.240	1
240	C3H7NO2	1-nitropropane	108-03-2	gas	3.660	1	320	C4H7ClO2	ethyl chloroacetate	105-39-5	in benzene	2.641	1



Table 17 Dipole Moment – Organic Compounds

Dipole Moment							Dipole Moment						
ID	FORMULA	NAME	CAS No	state	Debye	code	ID	FORMULA	NAME	CAS No	state	Debye	code
321	C4H7N	butyronitrile	109-74-0	gas	4.070	1	401	C4H10S	tert-butyl mercaptan	75-66-1	in benzene	1.589	1
322	C4H7N	isobutyronitrile	78-82-0	gas	4.290	1	402	C4H10S	diethyl sulfide	352-93-2	gas	1.541	1
323	C4H7NO	acetone cyanohydrin	75-86-5	in benzene	0.318	1	403	C4H10S	methyl propyl sulfide	3877-15-4	gas	1.520	2
324	C4H7NO	2-pyrrolidone	616-45-5	in benzene	0.309	1	404	C4H10S2	diethyl disulfide	110-81-6	in benzene	1.961	1
325	C4H8	cyclobutane	287-23-0	gas	0.000	2	405	C4H11N	butylamine	109-73-9	in benzene	1.391	1
326	C4H8	1-butene	106-98-9	gas	0.340	1	406	C4H11N	isobutylamine	78-81-9	in benzene	1.270	1
327	C4H8	cis-2-butene	590-18-1	gas	0.300	1	407	C4H11N	sec-butylamine	13952-84-6	in benzene	1.280	1
328	C4H8	trans-2-butene	624-64-6	gas	0.000	2	408	C4H11N	tert-butylamine	75-64-9	in benzene	1.290	1
329	C4H8	isobutene	115-11-7	gas	0.500	1	409	C4H11N	diethylamine	109-89-7	gas	0.920	1
330	C4H8Cl2	1,2-dichlorobutane	616-21-7	gas	2.911	2	410	C4H11NO	dimethylethanamine	108-01-0	in benzene	2.209	1
331	C4H8Cl2	1,4-dichlorobutane	110-56-5	gas	2.221	1	411	C4H11NO	2-amino-1-methoxypropane	37143-54-7	gas	1.382	2
332	C4H8Cl2	2,3-dichlorobutane, dl and meso	7581-97-7	gas	0.000	2	412	C4H11NO2	diethanolamine	111-42-2	in dioxane	0.851	1
333	C4H8Cl2O	bis(2-chloroethyl) ether	111-44-4	in benzene	2.581	1	413	C4H12O2Si	dimethoxydimethylsilane	1112-39-6	in benzene	1.310	1
334	C4H8O	1,2-epoxybutane	106-88-7	in benzene	2.009	1	414	C4H12Si	tetramethylsilane	75-76-3	liquid	0.000	1
335	C4H8O	ethyl vinyl ether	109-92-2	gas	0.980	1	415	C5Cl6	hexachlorocyclopentadiene	77-47-4	in benzene	1.049	1
336	C4H8O	butyraldehyde	123-72-8	gas	2.719	1	416	C5H4O2	furfural	98-01-1	in benzene	0.360	1
337	C4H8O	isobutyraldehyde	78-84-2	gas	2.698	2	417	C5H4O3	3-methyl-2,5-furandione	616-02-4	in benzene	4.047	1
338	C4H8O	methyl ethyl ketone	78-93-3	benzene/dioxane	2.760	1	418	C5H5N	pyridine	110-86-1	gas	2.191	1
339	C4H8O	tetrahydrofuran	109-99-9	gas	1.630	1	419	C5H6	cyclopentadiene	542-92-7	gas	0.419	1
340	C4H8O	2,2-dimethyloxirane	558-30-5	gas	2.248	2	420	C5H6	2-methyl-1-butene-3-yne	78-80-8	in benzene	0.549	1
341	C4H8OS	s-ethyl thioacetate	625-60-5	gas	4.617	2	421	C5H6	1-pentene-3-yne	646-05-9	gas	0.660	1
342	C4H8OS	3-(methylthio)propanal	3268-49-3	gas	2.968	1	422	C5H6N2	glutaronitrile	544-13-8	in benzene	3.897	1
343	C4H8O2	butyric acid	107-92-6	in benzene	1.649	1	423	C5H6O2	furfuryl alcohol	98-00-0	in benzene	1.919	1
344	C4H8O2	isobutyric acid	79-31-2	in benzene	1.091	1	424	C5H6O4	itaconic acid	97-65-4	in dioxane	2.251	1
345	C4H8O2	propyl formate	110-74-7	in benzene	1.910	1	425	C5H6S	2-methylthiophene	554-14-3	gas	0.675	1
346	C4H8O2	ethyl acetate	141-78-6	gas	1.781	1	426	C5H6S	3-methylthiophene	616-44-4	gas	0.956	1
347	C4H8O2	methyl propanoate	554-12-1	in benzene	1.703	1	427	C5H7N	N-methylpyrrole	96-54-8	gas	2.099	1
348	C4H8O2	1,4-dioxane	123-91-1	gas	0.000	2	428	C5H7NO2	ethyl cyanoacetate	105-56-6	gas	2.170	1
349	C4H8O2	cis-2-butene-1,4-diol	6117-80-2	in benzene	2.500	1	429	C5H8	cyclopentene	142-29-0	gas	0.200	1
350	C4H8O2	trans-2-butene-1,4-diol	821-11-4	in benzene	2.470	1	430	C5H8	isoprene	78-79-5	gas	0.250	1
351	C4H8O2	1,3-dioxane	505-22-6	in benzene	2.060	1	431	C5H8	trans-1,3-pentadiene	2004-70-8	gas	0.680	1
352	C4H8O2	3-hydroxybutanol	107-89-1	gas	2.782	2	432	C5H8	1,4-pentadiene	591-93-5	in benzene	0.380	1
353	C4H8O2	4-hydroxybutanaldehyde	25714-71-0	gas	3.028	2	433	C5H8	1-pentyne	627-19-0	gas	0.809	1
354	C4H8O2	3-hydroxy-2-methyl propionaldehyde	38433-80-6	gas	4.077	2	434	C5H8	2-pentyne	627-21-4	gas	0.116	2
355	C4H8O2S	sulfolane	126-33-0	in benzene	0.468	1	435		pentaerythritol tetranitrate	78-11-5	in dioxane	2.479	1
356	C4H8O3	2-hydroxy-2-methylpropanoic acid	594-61-6	gas	2.431	2	436	C5H8O	cyclopentanone	120-92-3	gas	3.238	1
357	C4H8O3	methyl lactate	547-64-8	gas	1.799	2	437	C5H8O	methyl isopropenyl ketone	814-78-8	in benzene	2.740	1
358	C4H8S	tetrahydrothiophene	110-01-0	in benzene	1.901	1	438	C5H8O2	acetylacetone	123-54-6	gas	2.810	1
359	C4H9Br	1-bromobutane	109-69-9	gas	2.080	1	439	C5H8O2	methyl methacrylate	80-62-6	in benzene	1.970	1
360	C4H9Br	2-bromobutane	78-76-2	gas	2.230	1	440	C5H8O2	4-methyl-gamma-butyrolactone	108-29-2	in benzene	4.300	1
361	C4H9Cl	1-chlorobutane	109-69-3	gas	2.051	1	441	C5H8O2	pentanediol	111-30-8	gas	3.328	2
362	C4H9Cl	1-chloro-2-methylpropane	513-36-0	gas	2.000	1	442	C5H8O3	levulinic acid	123-76-2	gas	3.148	2
363	C4H9Cl	2-chlorobutane	78-86-4	gas	2.039	1	443	C5H8O4	glutaric acid	110-94-1	in dioxane	2.640	1
364	C4H9Cl	2-chloro-2-methylpropane	507-20-0	gas	2.129	1	444	C5H9NO	butyl isocyanate	111-36-4	liquid	2.524	1
365	C4H9I	1-iodobutane	542-69-8	gas	2.120	1	445	C5H9NO	N-methyl-2-pyrrolidone	872-50-4	in benzene	4.077	1
366	C4H9I	2-iodo-2-methylpropane	558-17-8	in benzene	2.150	1	446	C5H9NO2	4-morpholinecarboxaldehyde	4394-85-8	in benzene	2.950	1
367	C4H9N	pyrrolidine	123-75-1	in benzene	1.580	1	447	C5H9NO4	L-glutamic acid	56-86-0	gas	1.211	2
368	C4H9NO	N,N-dimethylacetamide	127-19-5	gas	3.810	1	448	C5H10	cyclopentane	287-92-3	liquid	0.000	1
369	C4H9NO	morpholine	110-91-8	in benzene	1.541	1	449	C5H10	1-pentene	109-67-1	liquid	0.340	1
370	C4H9NO2	1-nitrobutane	627-05-4	in benzene	3.388	1	450	C5H10	2-methyl-1-butene	563-46-2	gas	0.510	1
371	C4H10	butane	106-97-8	gas	0.000	2	451	C5H10	3-methyl-1-butene	563-45-1	gas	0.321	1
372	C4H10	isobutane	75-28-5	gas	0.132	1	452	C5H10	2-methyl-2-butene	513-35-9	in benzene	0.339	1
373	C4H10N2	piperazine	110-85-0	in benzene	1.470	1	453	C5H10Cl2	1,5-dichloropentane	628-76-2	in benzene	2.359	1
374	C4H10O	butanol	71-36-3	gas	1.661	1	454	C5H10O	pentanal	110-62-3	in benzene	2.569	1
375	C4H10O	isobutanol	78-83-1	gas	1.640	1	455	C5H10O	methyl propyl ketone	107-87-9	in benzene	2.770	1
376	C4H10O	sec-butanol	78-92-2	in benzene	1.661	1	456	C5H10O	diethyl ketone	96-22-0	in CCl4	2.821	1
377	C4H10O	tert-butanol	75-65-0	in benzene	1.670	1	457	C5H10O	methyl isopropyl ketone	563-80-4	in benzene	2.761	1
378	C4H10O	diethyl ether	60-29-7	gas	1.151	1	458	C5H10O2	pentanoic acid	109-52-4	in dioxane	1.610	1
379	C4H10O	methyl propyl ether	557-17-5	in benzene	1.241	1	459	C5H10O2	3-methylbutanoic acid	503-74-2	in benzene	0.630	1
380	C4H10O	methyl isopropyl ether	598-53-8	gas	1.247	1	460	C5H10O2	2,2-dimethylpropanoic acid	75-98-9	in benzene	1.700	1
381	C4H10O2	t-butyl hydroperoxide	75-91-2	in benzene	1.810	1	461	C5H10O2	butyl formate	592-84-7	in benzene	2.030	1
382	C4H10O2	1,2-dimethoxyethane	110-71-4	in benzene	1.710	1	462	C5H10O2	isobutyl formate	542-55-2	in benzene	1.890	1
383	C4H10O2	2-ethoxyethanol	110-80-5	in benzene	2.081	1	463	C5H10O2	sec-butyl formate	589-40-2	gas	1.940	2
384	C4H10O2	1,2-butanediol	584-03-2	in dioxane	2.179	1	464	C5H10O2	tert-butyl formate	762-75-4	in benzene	2.099	1
385	C4H10O2	1,3-butanediol	107-88-0	in dioxane	2.521	1	465	C5H10O2	propyl acetate	109-60-4	in benzene	1.790	1
386	C4H10O2	1,4-butanediol	110-63-4	liquid	3.930	1	466	C5H10O2	isopropyl acetate	108-21-4	gas	1.751	1
387	C4H10O2	DL-2,3-butanediol	6982-25-8	in benzene	2.099	1	467	C5H10O2	ethyl propanoate	105-37-3	in benzene	1.752	1
388	C4H10O2	meso-2,3-butanediol	5341-95-7	in benzene	2.099	1	468	C5H10O2	methyl butanoate	623-42-7	in benzene	1.721	1
389	C4H10O2	n-butylhydroperoxide	4813-50-7	gas	0.275	2	469	C5H10O2	methyl isobutanoate	547-63-7	gas	1.799	1
390	C4H10O2	2-methoxy-1-propanol	1589-47-5	gas	1.859	2	470	C5H10O2	tetrahydrofurfuryl alcohol	97-99-4	in benzene	2.200	1
391	C4H10O2	propylene glycol monomethyl ether	107-98-2	in benzene	2.401	1	471	C5H10O2S	3-methyl sulfolane	872-93-5	gas	4.797	1
392	C4H10O2	2-methyl-1,3-propanediol	2163-42-0	gas	0.312	2	472	C5H10O3	diethyl carbonate	105-58-8	gas	1.100	1
393	C4H10O3	diethylene glycol	111-46-6	in benzene	2.521	1	473	C5H10O3	ethyl lactate	97-64-3	in benzene	2.400	1
394	C4H10O3	1,2,3-butanetriol	4435-50-1	gas	3.418	2	474	C5H11Br	1-bromopentane	110-53-2	liquid	1.990	1
395	C4H10O3	1,2,4-butanetriol	3068-00-6	gas	3.747	2	475	C5H11Cl	1-chloropentane	543-59-9	gas	2.159	1
396	C4H10O3S	diethyl sulfite	623-81-4	in benzene	0.300	1	476	C5H11Cl	1-chloro-3-methylbutane	107-84-6	in benzene	1.940	1
397	C4H10O4S	diethyl sulfate	64-67-5	in benzene	4.407	1	477	C5H11Cl	2-chloro-2-methylbutane	594-36-5	in benzene	2.160	1
398	C4H10S	butyl mercaptan	109-79-5	in benzene	1.529	1	478	C5H11N	N-methylpyrrolidine	120-94-5	in benzene	0.830	1
399	C4H10S	isobutyl mercaptan	513-44-0	in benzene	1.529	1	479	C5H11N	piperidine	110-89-4	in benzene	1.190	1
400	C4H10S	sec-butyl mercaptan	513-53-1	in benzene	1.601	1	480	C5H11N	cyclopentylamine	1003-03-8	gas	0.797	2

Table 17 Dipole Moment – Organic Compounds

Dipole Moment							Dipole Moment						
ID	FORMULA	NAME	CAS No	state	Debye	code	ID	FORMULA	NAME	CAS No	state	Debye	code
481	C5H11NO	tert-butylformamide	2425-74-3	in dioxane	3.927	1	561	C6H7N	3-methylpyridine	108-99-6	in benzene	2.401	1
482	C5H12	pentane	109-66-0	gas	0.000	1	562	C6H7N	4-methylpyridine	108-89-4	in benzene	2.581	1
483	C5H12	isopentane	78-78-4	gas	0.130	1	563	C6H8	1,3-cyclohexadiene	592-57-4	gas	0.441	1
484	C5H12	neopentane	463-82-1	gas	0.000	1	564	C6H8	1,4-cyclohexadiene	628-41-1	in heptane	0.130	1
485	C5H12O	1-pentanol	71-41-0	in CCl4	1.700	1	565	C6H8N2	adiponitrile	111-69-3	gas	3.747	1
486	C5H12O	2-pentanol	6032-29-7	in benzene	1.616	1	566	C6H8N2	m-phenylenediamine	108-45-2	gas	1.811	1
487	C5H12O	3-pentanol	584-02-1	gas	1.640	1	567	C6H8N2	o-phenylenediamine	95-54-5	gas	1.529	1
488	C5H12O	2-methyl-1-butanol	137-32-6	gas	1.880	1	568	C6H8N2	p-phenylenediamine	106-50-3	gas	1.529	1
489	C5H12O	3-methyl-1-butanol	123-51-3	in benzene	1.799	1	569	C6H8N2	phenylhydrazine	100-63-0	in benzene	1.670	1
490	C5H12O	tert-pentyl-alcohol	75-85-4	in benzene	1.700	1	570	C6H8O4	dimethyl maleate	624-48-6	in CCl4	2.479	1
491	C5H12O	3-methyl-2-butanol	598-75-4	gas	1.817	1	571	C6H8O6	ascorbic acid	50-81-7	in dioxane	3.957	1
492	C5H12O	methyl butyl ether	628-28-4	in benzene	1.250	1	572	C6H8O7	citric acid	77-92-9	gas	3.478	2
493	C5H12O	methyl tert-butyl ether	1634-04-4	in benzene	1.361	1	573	C6H10	1-methylcyclopentene	693-89-0	gas	0.000	2
494	C5H12O	ethyl propyl ether	628-32-0	in benzene	1.160	1	574	C6H10	3-methylcyclopentene	1120-62-3	gas	0.000	2
495	C5H12O	ethyl isopropyl ether	625-54-7	in benzene	1.250	1	575	C6H10	4-methylcyclopentene	1759-81-5	gas	0.306	2
496	C5H12O2	ethylene glycol monopropyl ether	2807-30-9	in benzene	2.159	1	576	C6H10	cyclohexene	110-83-8	gas	0.330	1
497	C5H12O2	neopentyl glycol	126-30-7	in benzene	2.698	1	577	C6H10	1,4-hexadiene	592-45-0	gas	0.000	2
498	C5H12O2	1,5-pentanediol	111-29-5	in dioxane	2.371	1	578	C6H10	cis-2,trans-4-hexadiene	5194-50-3	in benzene	0.309	1
499	C5H12O2	2,4-pentanediol	625-69-4	in dioxane	2.629	1	579	C6H10	trans-2,trans-4-hexadiene	5194-51-4	in benzene	0.309	1
500	C5H12O2	diethoxymethane	462-95-3	gas	1.220	1	580	C6H10	3-methyl-1,4-pentadiene	1115-08-8	gas	0.279	2
501	C5H12O3	2-(2-methoxyethoxy)ethanol	111-77-3	in benzene	2.749	1	581	C6H10	2,3-dimethyl-1,3-butadiene	513-81-5	gas	0.510	1
502	C5H12O4	pentaerythritol	115-77-5	gas	2.009	1	582	C6H10	1-hexyne	693-02-7	gas	0.830	1
503	C5H12S	pentyl mercaptan	110-66-7	in benzene	1.511	1	583	C6H10O	cyclohexanone	108-94-1	gas	3.088	1
504	C5H12S	methyl butyl sulfide	628-29-5	gas	1.490	2	584	C6H10O	mesityl oxide	141-79-7	in benzene	3.200	1
505	C5H12S	3,3-dimethyl-2-thiabutane	6163-64-0	in benzene	1.559	1	585	C6H10O	2-methyl-2-pentalol	623-36-9	gas	3.627	2
506	C5H13N	pentylamine	110-58-7	in benzene	1.550	1	586	C6H10O2	epsilon-caprolactone	502-44-3	gas	4.450	1
507	C5H13N	1,1-dimethylpropylamine	594-39-8	gas	1.409	2	587	C6H10O2	ethyl methacrylate	97-63-2	in benzene	2.150	1
508	C5H13NO2	methyl diethanolamine	105-59-9	gas	2.860	1	588	C6H10O2	allyl glycidyl ether	106-92-3	gas	1.862	2
509	C6Cl6	hexachlorobenzene	118-74-1	in benzene	0.540	1	589	C6H10O2	isopropyl acrylate	689-12-3	gas	2.281	2
510	C6F6	hexafluorobenzene	392-56-3	in benzene	0.330	1	590	C6H10O2	3,4-dihydro-2-methoxy-2H-pyran	4454-05-1	in benzene	1.979	1
511	C6H3Cl2NO2	1-chloro-2,4-dinitrobenzene	97-00-7	in benzene	3.238	1	591	C6H10O3	ethylacetacetate	141-97-9	gas	2.960	1
512	C6H3Cl2NO2	1,2-dichloro-4-nitrobenzene	99-54-7	in benzene	2.171	1	592	C6H10O3	propionic anhydride	123-62-6	in benzene	3.298	1
513	C6H3Cl3	1,2,4-trichlorobenzene	120-82-1	in benzene	1.260	1	593	C6H10O3	ethylene glycol monomethacrylate	868-77-9	in benzene	2.350	1
514	C6H3Cl3	1,2,3-trichlorobenzene	87-61-6	in benzene	2.440	1	594	C6H10O4	adipic acid	124-04-9	in dioxane	2.320	1
515	C6H3Cl3	1,3,5-trichlorobenzene	108-70-3	in benzene	0.309	1	595	C6H10O4	diethyl oxalate	95-92-1	in benzene	2.491	1
516	C6H3N3O6	1,3,5-trinitrobenzene	99-35-4	in benzene	0.411	1	596	C6H10O4	ethylene glycol diacetate	111-55-7	in benzene	2.340	1
517	C6H4Br2	m-dibromobenzene	108-36-1	in benzene	1.469	1	597	C6H10O4	dimethyl succinate	106-65-0	in benzene	2.159	1
518	C6H4ClNO2	m-chloronitrobenzene	121-73-3	gas	3.730	1	598	C6H10O5	dilactic acid	19201-34-4	gas	2.290	2
519	C6H4ClNO2	o-chloronitrobenzene	88-73-3	gas	4.640	1	599	C6H11N	N-allyl-2-propen-1-amine	124-02-7	in benzene	1.199	1
520	C6H4ClNO2	p-chloronitrobenzene	100-00-5	gas	2.830	1	600	C6H11NO	epsilon-caprolactam	105-60-2	in benzene	0.387	1
521	C6H4Cl2	o-dichlorobenzene	95-50-1	gas	2.500	1	601	C6H11NO	cyclohexanone oxime	100-64-1	in benzene	0.830	1
522	C6H4Cl2	m-dichlorobenzene	541-73-1	gas	1.721	1	602	C6H12	methylcyclopentane	96-37-7	liquid	0.000	1
523	C6H4Cl2	p-dichlorobenzene	106-46-7	gas	0.000	2	603	C6H12	cyclohexane	110-82-7	gas	0.609	1
524	C6H4F2	m-difluorobenzene	372-18-9	gas	1.580	1	604	C6H12	1-hexene	592-41-6	liquid	0.339	1
525	C6H4F2	o-difluorobenzene	367-11-3	in benzene	2.400	1	605	C6H12	trans-2-hexene	4050-45-7	gas	0.000	2
526	C6H4N2	3-pyridinecarbonitrile	100-54-9	in benzene	0.345	1	606	C6H12	cis-3-hexene	7642-09-3	in benzene	0.339	1
527	C6H4N2O4	m-dinitrobenzene	99-65-0	in benzene	3.837	1	607	C6H12	trans-3-hexene	13269-52-8	gas	0.000	1
528	C6H4N2O4	o-dinitrobenzene	528-29-0	in benzene	6.296	1	608	C6H12	3-methyl-trans-2-pentene	616-12-6	gas	0.000	2
529	C6H4N2O4	p-dinitrobenzene	100-25-4	gas	0.000	1	609	C6H12	2,3-dimethyl-1-butene	563-78-0	gas	0.000	2
530	C6H4O2	p-benzoquinone	106-51-4	gas	0.000	1	610	C6H12	2,3-dimethyl-2-butene	563-79-1	gas	0.000	2
531	C6H5Br	bromobenzene	108-86-1	gas	1.700	1	611	C6H12	3,3-dimethyl-1-butene	558-37-2	in benzene	0.000	1
532	C6H5Cl	chlorobenzene	108-90-7	gas	1.691	1	612	C6H12	2-ethyl-1-butene	760-21-4	gas	0.000	2
533	C6H5ClO	m-chlorophenol	108-43-0	in benzene	2.171	1	613	C6H12N2	6-aminohexanenitrile	2432-74-8	gas	3.358	2
534	C6H5ClO	o-chlorophenol	95-57-8	in benzene	1.331	1	614	C6H12N4	methenamine	100-97-0	in benzene	0.860	1
535	C6H5ClO	p-chlorophenol	106-48-9	gas	2.111	1	615	C6H12O	butyl vinyl ether	111-34-2	in benzene	1.250	1
536	C6H5ClO3S	4-chlorobenzenesulfonic acid	98-66-8	gas	5.246	2	616	C6H12O	cyclohexanol	108-93-0	in CCl4	1.859	1
537	C6H5Cl3Si	trichlorophenylsilane	98-13-5	in benzene	2.410	1	617	C6H12O	hexanal	66-25-1	gas	2.578	2
538	C6H5F	fluorobenzene	462-06-6	gas	1.600	1	618	C6H12O	2-hexanone	591-78-6	in benzene	2.680	1
539	C6H5I	iodobenzene	591-50-4	gas	1.700	1	619	C6H12O	3-hexanone	589-38-8	gas	2.869	2
540	C6H5NO2	nitrobenzene	98-95-3	gas	0.423	1	620	C6H12O	3-methyl-2-pentanone	565-61-7	gas	2.773	2
541	C6H5NO2	3-pyridinecarboxylic acid	59-67-6	in benzene	2.530	1	621	C6H12O	4-methyl-2-pentanone	108-10-1	in benzene	2.689	1
542	C6H6	benzene	71-43-2	gas	0.000	1	622	C6H12O	ethyl isopropyl ketone	565-69-5	gas	3.118	2
543	C6H6ClN	m-chloroaniline	108-42-9	in benzene	2.940	1	623	C6H12O	3,3-dimethyl-2-butanone	75-97-8	in benzene	2.749	1
544	C6H6ClN	o-chloroaniline	95-51-2	in benzene	1.770	1	624	C6H12O2	hexanoic acid	142-62-1	in dioxane	1.571	1
545	C6H6ClN	p-chloroaniline	106-47-8	in benzene	2.989	1	625	C6H12O2	2,2-dimethylbutanoic acid	595-37-9	gas	1.871	2
546	C6H6N2	cis-dicyano-1-butene	2141-58-4	gas	6.386	2	626	C6H12O2	pentyl formate	638-49-3	gas	1.901	1
547	C6H6N2	trans-dicyano-1-butene	2141-59-5	gas	0.977	2	627	C6H12O2	butyl acetate	123-86-4	liquid	1.841	1
548	C6H6N2O2	m-nitroaniline	99-09-2	in benzene	4.900	1	628	C6H12O2	isobutyl acetate	110-19-0	in benzene	1.871	1
549	C6H6N2O2	o-nitroaniline	88-74-4	in benzene	4.060	1	629	C6H12O2	sec-butyl acetate	105-46-4	in benzene	1.859	1
550	C6H6N2O2	p-nitroaniline	100-01-6	in benzene	6.290	1	630	C6H12O2	tert-butyl acetate	540-88-5	in benzene	1.919	1
551	C6H6N4	nitrotriacetonitrile	7327-60-8	gas	2.671	2	631	C6H12O2	propyl propanoate	106-36-5	in benzene	1.790	1
552	C6H6O	phenol	108-95-2	gas	1.450	1	632	C6H12O2	ethyl butanoate	105-54-4	in benzene	1.811	1
553	C6H6O2	pyrocatechol	120-80-9	in benzene	2.599	1	633	C6H12O2	ethyl isobutanoate	97-62-1	in benzene	2.070	1
554	C6H6O2	resorcinol	108-46-3	in benzene	2.090	1	634	C6H12O2	diacetone alcohol	123-42-2	in benzene	3.238	1
555	C6H6O2	p-hydroquinone	123-31-9	in benzene	1.781	1	635	C6H12O3	2-ethoxyethyl acetate	111-15-9	in benzene	2.250	1
556	C6H6O3	1,2,3-benzenetriol	87-66-1	in benzene	3.178	1	636	C6H12O3	hydroxycaproic acid	1191-25-9	gas	2.689	2
557	C6H6O3S	benzenesulfonic acid	98-11-3	in benzene	3.807	1	637	C6H12O3	paraldehyde	123-63-7	gas	1.430	1
558	C6H6S	phenyl mercaptan	108-98-5	in benzene	1.229	1	638	C6H12O3	DL-a-hydroxycaproic acid	6064-63-7	gas	2.521	2
559	C6H7N	aniline	62-53-3	gas	1.529	1	639	C6H12O3	propylene glycol monomethyl ether acetate	108-65-6	gas	1.799	1
560	C6H7N	2-methylpyridine	109-06-8	in benzene	2.039	1	640	C6H12O6	glucose	50-99-7	gas	2.749	2

Table 17 Dipole Moment – Organic Compounds

Dipole Moment							Dipole Moment						
ID	FORMULA	NAME	CAS No	state	Debye	code	ID	FORMULA	NAME	CAS No	state	Debye	code
641	C6H12S	cyclohexanethiol	1569-69-3	liquid	1.640	1	721	C7H7NO2	m-nitrotoluene	99-08-1	in benzene	4.227	1
642	C6H13I	1-iodohexane	638-45-9	in CCl <sub>4</sub>	1.841	1	722	C7H7NO2	o-nitrotoluene	88-72-2	in benzene	3.750	1
643	C6H13N	cyclohexylamine	108-91-8	in hexane	1.310	1	723	C7H7NO2	p-nitrotoluene	99-99-0	in benzene	4.437	1
644	C6H13N	N-ethyl-2-methylallylamine	18328-90-0	gas	0.731	2	724	C7H7NO3	o-nitroanisole	91-23-6	gas	4.830	1
645	C6H14	hexane	110-54-3	gas	0.000	2	725	C7H8	toluene	108-88-3	gas	0.360	1
646	C6H14	2,2-dimethylbutane	75-83-2	gas	0.000	2	726	C7H8Cl2Si	dichloromethylphenylsilane	149-74-6	gas	2.401	1
647	C6H14	2,3-dimethylbutane	79-29-8	gas	0.000	2	727	C7H8O	anisole	100-66-3	gas	1.361	1
648	C6H14	2-methylpentane	107-83-5	gas	0.000	2	728	C7H8O	benzyl alcohol	100-51-6	gas	1.709	1
649	C6H14	3-methylpentane	96-14-0	gas	0.000	2	729	C7H8O	m-cresol	108-39-4	gas	1.589	1
650	C6H14N2O	1-piperazineethanol	103-76-4	gas	1.280	2	730	C7H8O	o-cresol	95-48-7	gas	1.451	1
651	C6H14N2O2	lysine	56-87-1	gas	1.979	2	731	C7H8O	p-cresol	106-44-5	gas	1.559	1
652	C6H14O	1-hexanol	111-27-3	in benzene	1.649	1	732	C7H8O2	guaiacol	90-05-1	in benzene	2.458	1
653	C6H14O	2-hexanol	626-93-7	gas	1.541	2	733	C7H8O2	p-methoxyphenol	150-76-5	in benzene	1.919	1
654	C6H14O	2-methyl-1-pentanol	105-30-6	gas	1.481	2	734	C7H8O3S	2-methylbenzenesulfonic acid	88-20-0	gas	4.137	2
655	C6H14O	3-methyl-1-pentanol	589-35-5	gas	1.487	2	735	C7H8O3S	p-toluenesulfonic acid	104-15-4	gas	4.707	2
656	C6H14O	4-methyl-2-pentanol	108-11-2	gas	1.700	1	736	C7H8S	benzenemethanethiol	100-53-8	in benzene	1.439	1
657	C6H14O	3-methyl-3-pentanol	77-74-7	gas	1.748	2	737	C7H9N	benzylamine	100-46-9	in benzene	1.379	1
658	C6H14O	dipropyl ether	111-43-3	gas	1.211	1	738	C7H9N	N-methylaniline	100-61-8	in benzene	1.691	1
659	C6H14O	diisopropyl ether	108-20-3	gas	1.130	1	739	C7H9N	m-toluidine	108-44-1	in benzene	-----	1
660	C6H14O	methyl pentyl ether	628-80-8	gas	1.241	1	740	C7H9N	o-toluidine	95-53-4	in benzene	1.601	1
661	C6H14O	ethyl butyl ether	628-81-9	in benzene	1.220	1	741	C7H9N	p-toluidine	106-49-0	in benzene	1.310	1
662	C6H14O2	acetol	105-57-7	gas	1.079	1	742	C7H9N	2,6-dimethylpyridine	108-48-5	in benzene	1.679	1
663	C6H14O2	2-butoxyethanol	111-76-2	in benzene	2.081	1	743	C7H10	2-norbornene	498-66-8	in heptane	0.399	1
664	C6H14O2	hexylene glycol	107-41-5	in dioxane	2.860	1	744	C7H10N2	m-toluenediamine	95-80-7	gas	1.799	2
665	C6H14O2	1,6-hexanediol	629-11-8	in dioxane	2.500	1	745	C7H10N2	2-methyl-1,3-benzenediamine	823-40-5	gas	1.907	2
666	C6H14O2	1-(1-methylethoxy)-2-propanol	3944-36-3	gas	2.111	2	746	C7H10O	3-cyclohexene-1-carboxaldehyde	100-50-5	gas	2.404	2
667	C6H14O2	1-propoxy-2-propanol	1569-01-3	gas	1.970	2	747	C7H12	1-heptyne	628-71-7	gas	0.848	1
668	C6H14O2	ethylene glycol diethyl ether	629-14-1	in benzene	1.649	1	748	C7H12	cycloheptene	628-92-2	gas	0.450	1
669	C6H14O2S	dipropyl sulfone	598-03-8	in benzene	4.467	1	749	C7H12O2	butyl acrylate	141-32-2	in benzene	1.931	1
670	C6H14O3	diethylene glycol dimethyl ether	111-96-6	in benzene	1.970	1	750	C7H12O2	sec-butyl acrylate	8/5/2998	gas	1.718	2
671	C6H14O3	2-(2-ethoxyethoxy)ethanol	111-90-0	in benzene	2.779	1	751	C7H12O2	propyl methacrylate	2210-28-8	in benzene	2.120	1
672	C6H14O4	triethylene glycol	112-27-6	liquid	5.580	1	752	C7H12O2	cyclohexyl formate	4351-54-6	gas	4.047	2
673	C6H14S	hexyl mercaptan	111-31-9	in benzene	1.529	1	753	C7H12O2	cyclopentanecarboxylic acid	1123-00-8	gas	1.841	2
674	C6H14S	dipropyl sulfide	111-47-7	in benzene	1.601	1	754	C7H12O2	vinyl pivalate	3377-92-2	gas	1.844	2
675	C6H14S	3,3-dimethyl-2-thiapentane	13286-92-5	gas	1.490	2	755	C7H12O3	1,2-propanediol 1-methacrylate	923-26-2	gas	2.320	1
676	C6H14S	2,2-dimethyl-3-thiapentane	14290-92-7	in octane	1.640	1	756	C7H12O4	diethyl malonate	105-53-3	in benzene	2.540	1
677	C6H14S2	dipropyl disulfide	629-19-6	in benzene	1.979	1	757	C7H12O4	heptanedioic acid	111-16-0	in dioxane	2.389	1
678	C6H15Al	triethyl aluminum	97-93-8	in benzene	0.600	1	758	C7H14	ethylcyclopentane	1640-89-7	gas	0.000	2
679	C6H15N	hexylamine	111-26-2	in benzene	1.589	1	759	C7H14	1,1-dimethylcyclopentane	1638-26-2	gas	0.000	2
680	C6H15N	di-propylamine	142-84-7	in benzene	1.070	1	760	C7H14	cis-1,2-dimethylcyclopentane	1192-18-3	gas	0.000	2
681	C6H15N	dimethylbutylamine	927-62-8	gas	0.815	2	761	C7H14	trans-1,2-dimethylcyclopentane	822-50-4	gas	0.000	2
682	C6H15N	triethylamine	121-44-8	gas	0.660	1	762	C7H14	cis-1,3-dimethylcyclopentane	2532-58-3	gas	0.000	2
683	C6H15NO	2-diethylaminoethanol	100-37-8	in benzene	2.431	1	763	C7H14	trans-1,3-dimethylcyclopentane	1759-58-6	gas	0.000	2
684	C6H15NO3	triethanolamine	102-71-6	in dioxane	1.079	1	764	C7H14	methylcyclohexane	108-87-2	gas	0.000	2
685	C6H15O4P	triethyl phosphate	78-40-0	in benzene	3.088	1	765	C7H14	cycloheptane	291-64-5	gas	0.000	2
686	C6H16N2	hexamethylenediamine	124-09-4	in benzene	1.910	1	766	C7H14	1-heptene	592-76-7	liquid	0.339	1
687	C6H16N2	N,N,N',N'-tetramethyl-1,2-ethanediamine	110-18-9	gas	0.000	2	767	C7H14	5-methyl-1-hexene	3524-73-0	gas	0.000	2
688	C6H18N3OP	hexamethyl phosphoramidate	680-31-9	in benzene	5.540	1	768	C7H14	2-ethyl-1-pentene	3404-71-5	gas	0.000	2
689	C6H18OSi2	hexamethyldisiloxane	107-46-0	gas	0.660	1	769	C7H14	3-ethyl-1-pentene	4038-04-4	gas	0.000	2
690	C6H18O3Si3	hexamethylcyclotrisiloxane	541-05-9	in benzene	0.000	1	770	C7H14	2,3,3-trimethyl-1-butene	594-56-9	gas	0.000	2
691	C6H19NSi2	hexamethyldisilazane	999-97-3	in benzene	0.420	1	771	C7H14O	1-heptanal	111-71-7	in benzene	2.578	1
692	C7H4ClF3	p-chlorobenzotrifluoride	98-56-6	gas	1.580	1	772	C7H14O	2-heptanone	110-43-0	in benzene	2.611	1
693	C7H5ClO	benzoyl chloride	98-88-4	in benzene	3.328	1	773	C7H14O	3-heptanone	106-35-4	in benzene	2.809	1
694	C7H5ClO2	o-chlorobenzoic acid	118-91-2	in dioxane	2.450	1	774	C7H14O	4-heptanone	123-19-3	in benzene	2.500	1
695	C7H5Cl3	benzotrifluoride	98-07-7	in benzene	2.040	1	775	C7H14O	2,4-dimethyl-3-pentanone	565-80-0	in benzene	2.731	1
696	C7H5F3	benzotrifluoride	98-08-8	gas	2.860	1	776	C7H14O	1-methylcyclohexanol	590-67-0	in dioxane	1.649	1
697	C7H5N	benzonitrile	100-47-0	gas	4.167	1	777	C7H14O	cis-2-methylcyclohexanol	7443-70-1	in benzene	1.646	1
698	C7H5NO	phenyl isocyanate	103-71-9	in CCl <sub>4</sub>	2.419	1	778	C7H14O	trans-2-methylcyclohexanol	7443-52-9	in benzene	1.709	1
699	C7H5NS2	2(3H)-benzothiazolethione	149-30-4	in benzene	4.017	1	779	C7H14O	cis-3-methylcyclohexanol	5454-79-5	in benzene	1.772	1
700	C7H5N3O6	2,4,6-trinitrotoluene	118-96-7	in benzene	1.160	1	780	C7H14O	trans-3-methylcyclohexanol	7443-55-2	in benzene	1.637	1
701	C7H5N5O8	N-methyl-N,2,4,6-tetranitroaniline	479-45-8	gas	2.359	2	781	C7H14O	cis-4-methylcyclohexanol	7731-28-4	in benzene	1.730	1
702	C7H6Cl2	benzyl dichloride	98-87-3	in benzene	2.030	1	782	C7H14O	trans-4-methylcyclohexanol	7731-29-5	in benzene	1.730	1
703	C7H6Cl2	2,4-dichlorotoluene	95-73-8	in benzene	1.950	1	783	C7H14O2	heptanoic acid	111-14-8	gas	1.679	2
704	C7H6N2O4	2,4-dinitrotoluene	121-14-2	in benzene	4.317	1	784	C7H14O2	hexyl formate	629-33-4	gas	1.874	2
705	C7H6N2O4	2,5-dinitrotoluene	619-15-8	in benzene	0.579	1	785	C7H14O2	pentyl acetate	628-63-7	gas	1.721	1
706	C7H6N2O4	2,6-dinitrotoluene	606-20-2	in benzene	2.809	1	786	C7H14O2	isopentyl acetate	123-92-2	in benzene	1.799	1
707	C7H6N2O4	3,4-dinitrotoluene	610-39-9	in benzene	6.386	1	787	C7H14O2	butyl propanoate	590-01-2	in benzene	1.800	1
708	C7H6N2O4	3,5-dinitrotoluene	618-85-9	in benzene	4.317	1	788	C7H14O2	propyl butanoate	105-66-8	liquid	1.750	1
709	C7H6O	benzaldehyde	100-52-7	gas	3.208	1	789	C7H14O2	propyl isobutanoate	644-49-5	gas	1.889	1
710	C7H6O2	benzoic acid	65-85-0	in benzene	1.001	1	790	C7H14O2	ethyl isovalerate	108-64-5	in benzene	1.970	1
711	C7H6O2	p-hydroxybenzaldehyde	123-08-0	in benzene	3.957	1	791	C7H14O2	2-methylhexanoic acid	4536-23-6	gas	1.892	2
712	C7H6O2	salicylaldehyde	90-02-8	in benzene	3.088	1	792	C7H14O2	allyl-tert-butylperoxide	39972-78-6	gas	0.510	2
713	C7H6O3	salicylic acid	69-72-7	in dioxane	2.650	1	793	C7H14O2	neohexanoic acid	1185-39-3	gas	1.901	2
714	C7H7Br	p-bromotoluene	106-38-7	liquid	1.900	1	794	C7H14O3	ethyl-3-ethoxypropionate	763-69-9	gas	0.857	2
715	C7H7Cl	benzyl chloride	100-44-7	in benzene	1.890	1	795	C7H14O3	propylene glycol ethyl ether acetate	54839-24-6	gas	2.911	2
716	C7H7Cl	o-chlorotoluene	95-49-8	gas	1.559	1	796	C7H15Br	1-bromoheptane	629-04-9	gas	2.159	1
717	C7H7Cl	p-chlorotoluene	106-43-4	gas	2.209	1	797	C7H16	heptane	142-82-5	gas	0.000	2
718	C7H7F	p-fluorotoluene	352-32-9	in benzene	1.680	2	798	C7H16	2-methylhexane	591-76-4	liquid	0.000	1
719	C7H7NO	formanilide	103-70-8	in CCl <sub>4</sub>	3.370	1	799	C7H16	3-methylhexane	589-34-4	liquid	0.000	1
720	C7H7NO	benzamide	55-21-0	in benzene	3.777	1	800	C7H16	3-ethylpentane	617-78-7	liquid	0.000	1



Table 17 Dipole Moment – Organic Compounds

Dipole Moment							Dipole Moment						
ID	FORMULA	NAME	CAS No	state	Debye	code	ID	FORMULA	NAME	CAS No	state	Debye	code
801	C7H16	2,2-dimethylpentane	590-35-2	liquid	0.000	1	881	C8H14O2	cyclohexyl acetate	622-45-7	in benzene	1.919	1
802	C7H16	2,3-dimethylpentane	565-59-3	liquid	0.000	1	882	C8H14O2	2-oxolan-2-yloxolane	106538-38-9	gas	2.188	2
803	C7H16	2,4-dimethylpentane	108-08-7	liquid	0.000	1	883	C8H14O4	diethyl succinate	123-25-1	in benzene	2.159	1
804	C7H16	3,3-dimethylpentane	562-49-2	liquid	0.000	1	884	C8H14O4	octanedioic acid	505-48-6	in dioxane	2.359	1
805	C7H16	2,2,3-trimethylbutane	464-06-2	liquid	0.000	1	885	C8H14O4	2,6-dimethyl-1,3-dioxan-4-ol acetate, cis an*	828-00-2	gas	3.328	2
806	C7H16	3-methylhexane, (S)-	6131-24-4	gas	0.000	2	886	C8H16	propylcyclopentane	2040-96-2	gas	0.000	2
807	C7H16O	1-heptanol	111-70-6	in benzene	1.739	1	887	C8H16	isopropylcyclopentane	3875-51-2	gas	0.000	1
808	C7H16O	2-heptanol	543-49-7	in benzene	1.730	1	888	C8H16	1-methyl-1-ethylcyclopentane	16747-50-5	gas	0.000	1
809	C7H16O	2-methyl-1-hexanol	624-22-6	gas	1.478	1	889	C8H16	ethylcyclohexane	1678-91-7	gas	0.000	2
810	C7H16O	isopropyl isobutyl ether	78448-33-6	gas	1.280	2	890	C8H16	1,1-dimethylcyclohexane	590-66-9	gas	0.000	2
811	C7H16O	2-ethoxy-2-methylbutane	919-94-8	gas	1.541	2	891	C8H16	trans-1,2-dimethylcyclohexane	6876-23-9	gas	0.000	2
812	C7H16O	1-(1-methylethoxy)butane	1860-27-1	gas	1.271	2	892	C8H16	cis-1,3-dimethylcyclohexane	638-04-0	gas	0.000	2
813	C7H16O2	1-tert-butoxy-2-propanol	57018-52-7	gas	2.188	2	893	C8H16	trans-1,3-dimethylcyclohexane	2207-03-6	gas	0.000	2
814	C7H16O2	propylene glycol 2-tert-butyl ether	94023-15-1	gas	1.970	2	894	C8H16	cis-1,4-dimethylcyclohexane	624-29-3	gas	0.000	2
815	C7H16O2	diethylene glycol monopropyl ether	6881-94-3	gas	1.490	2	895	C8H16	trans-1,4-dimethylcyclohexane	2207-04-7	gas	0.000	2
816	C7H16O3	dipropylene glycol monomethyl ether	34590-94-8	gas	2.470	2	896	C8H16	cyclooctane	292-64-8	gas	0.000	1
817	C7H16O4	triethylene glycol monomethyl ether	112-35-6	gas	0.000	2	897	C8H16	1-octene	111-66-0	liquid	0.339	1
818	C7H16S	heptyl mercaptan	1639-09-4	liquid	1.550	1	898	C8H16	cis-2-octene	7642-04-8	gas	0.309	1
819	C7H17N	heptylamine	111-68-2	in benzene	1.600	1	899	C8H16	cis-3-octene	14850-22-7	gas	0.290	1
820	C8H4Cl2O2	isophthaloyl chloride	99-63-8	in benzene	5.156	1	900	C8H16	trans-3-octene	14919-01-8	liquid	0.000	1
821	C8H4O3	phthalic anhydride	85-44-9	in benzene	5.290	1	901	C8H16	cis-4-octene	7642-15-1	liquid	2.599	1
822	C8H6	ethynylbenzene	536-74-3	gas	0.657	1	902	C8H16	trans-4-octene	14850-23-8	liquid	0.000	1
823	C8H6O2	1,4-benzenedicarboxaldehyde	623-27-8	in benzene	2.350	1	903	C8H16	2-methyl-1-heptene	15870-10-7	gas	0.000	2
824	C8H6O3	2-formylbenzoic acid	119-67-5	gas	4.407	1	904	C8H16	6-methyl-1-heptene	5026-76-6	gas	0.000	2
825	C8H6O3	4-formylbenzoic acid	619-66-9	gas	3.298	1	905	C8H16	2-ethyl-1-hexene	1632-16-2	gas	0.000	2
826	C8H6O4	isophthalic acid	121-91-5	in dioxane	2.269	1	906	C8H16	2,3-dimethyl-1-hexene	16746-86-4	gas	0.000	2
827	C8H6O4	phthalic acid	88-99-3	in dioxane	2.599	1	907	C8H16	2,4,4-trimethyl-1-pentene	107-39-1	gas	0.000	2
828	C8H6S	benzothiophene	95-15-8	in benzene	0.630	1	908	C8H16	2,4,4-trimethyl-2-pentene	107-40-4	gas	0.000	2
829	C8H7N	indole	120-72-9	in benzene	2.081	1	909	C8H16O	2-ethylhexanal	123-05-7	in benzene	2.660	1
830	C8H7N	benzeneacetonitrile	140-29-4	in benzene	3.508	1	910	C8H16O	1-octanal	124-13-0	in heptane	2.320	1
831	C8H8	styrene	100-42-5	liquid	0.130	1	911	C8H16O	2-octanone	111-13-7	in benzene	2.461	1
832	C8H8O	acetophenone	98-86-2	gas	3.028	1	912	C8H16O2	octanoic acid	124-07-2	in dioxane	1.700	1
833	C8H8O	p-tolualdehyde	104-87-0	in dioxane	3.300	1	913	C8H16O2	2-ethylhexanoic acid	149-57-5	in CCl4	0.809	1
834	C8H8O	2-methylbenzaldehyde	529-20-4	in benzene	2.839	1	914	C8H16O2	heptyl formate	112-23-2	gas	1.871	2
835	C8H8O	3-methylbenzaldehyde	620-23-5	in benzene	2.929	1	915	C8H16O2	hexyl acetate	142-92-7	gas	1.799	1
836	C8H8O	phthalan	496-14-0	gas	1.787	2	916	C8H16O2	butyl butanoate	109-21-7	in benzene	2.051	1
837	C8H8O	4-vinylphenol	2628-17-3	gas	1.340	2	917	C8H16O2	1,4-cyclohexanedimethanol	105-08-8	gas	2.239	2
838	C8H8O2	methyl benzoate	93-58-3	in benzene	2.530	1	918	C8H16O3	2-butoxyethyl acetate	112-07-2	gas	3.148	2
839	C8H8O2	o-toluic acid	118-90-1	in benzene	1.700	1	919	C8H18	octane	111-65-9	gas	0.000	2
840	C8H8O2	benzyl formate	104-57-4	in benzene	1.841	1	920	C8H18	2-methylheptane	592-27-8	gas	0.000	2
841	C8H8O2	1-(2-hydroxyphenyl)ethanone	118-93-4	in benzene	3.238	1	921	C8H18	3-methylheptane	589-81-1	gas	0.000	2
842	C8H8O2	1-(4-hydroxyphenyl)ethanone	99-93-4	inb	3.777	1	922	C8H18	4-methylheptane	589-53-7	gas	0.000	2
843	C8H8O3	methyl salicylate	119-36-8	in benzene	2.470	1	923	C8H18	3-methyl-3-ethylpentane	1067-08-9	gas	0.000	2
844	C8H8O3	vanillin	121-33-5	in benzene	2.869	1	924	C8H18	3-ethylhexane	619-99-8	gas	0.000	2
845	C8H9NO	acetanilide	103-84-4	in benzene	4.047	1	925	C8H18	3-ethyl-2-methylpentane	609-26-7	gas	0.000	2
846	C8H9NO2	N-(4-hydroxyphenyl)acetamide	103-90-2	in dioxane	3.957	1	926	C8H18	2,2-dimethylhexane	590-73-8	gas	0.000	2
847	C8H10	ethylbenzene	100-41-4	gas	0.600	1	927	C8H18	2,3-dimethylhexane	584-94-1	gas	0.000	2
848	C8H10	o-xylene	95-47-6	gas	0.630	1	928	C8H18	2,4-dimethylhexane	589-43-5	gas	0.000	2
849	C8H10	m-xylene	108-38-3	liquid	0.300	1	929	C8H18	2,5-dimethylhexane	592-13-2	gas	0.000	2
850	C8H10	p-xylene	106-42-3	gas	0.000	2	930	C8H18	3,3-dimethylhexane	563-16-6	gas	0.000	2
851	C8H10O	phenetole	103-73-1	gas	1.409	1	931	C8H18	3,4-dimethylhexane	583-48-2	gas	0.000	2
852	C8H10O	2-phenylethanol	60-12-8	in benzene	1.649	1	932	C8H18	2,2,3-trimethylpentane	564-02-3	gas	0.000	2
853	C8H10O	2-methylbenzenemethanol	89-95-2	gas	1.472	2	933	C8H18	2,2,4-trimethylpentane	540-84-1	liquid	0.000	1
854	C8H10O	3-methylbenzenemethanol	587-03-1	gas	1.532	2	934	C8H18	2,3,3-trimethylpentane	560-21-4	gas	0.000	2
855	C8H10O	4-methylbenzenemethanol	589-18-4	gas	1.820	1	935	C8H18	2,3,4-trimethylpentane	565-75-3	gas	0.000	2
856	C8H10O	1-phenylethanol	98-85-1	in benzene	1.511	1	936	C8H18	2,2,3,3-tetramethylbutane	594-82-1	gas	0.000	2
857	C8H10O	o-ethylphenol	90-00-6	in benzene	1.571	1	937	C8H18	octane, mixture	---	gas	0.000	2
858	C8H10O	m-ethylphenol	620-17-7	in benzene	1.691	1	938	C8H18O	1-octanol	111-87-5	in benzene	1.649	1
859	C8H10O	p-ethylphenol	123-07-9	in benzene	1.781	1	939	C8H18O	2-octanol	123-96-6	in benzene	1.649	1
860	C8H10O	2,3-xlenol	526-75-0	in benzene	1.250	1	940	C8H18O	2-ethyl-1-hexanol	104-76-7	in benzene	1.760	1
861	C8H10O	2,4-xlenol	105-67-9	in benzene	1.391	1	941	C8H18O	dibutyl ether	142-96-1	gas	1.169	1
862	C8H10O	2,5-xlenol	95-87-4	in benzene	1.430	1	942	C8H18O	ethyl hexyl ether	5756-43-4	gas	1.211	2
863	C8H10O	2,6-xlenol	576-26-1	in benzene	1.409	1	943	C8H18O	isobutyl ether	628-55-7	gas	1.250	2
864	C8H10O	3,4-xlenol	95-65-8	gas	1.769	1	944	C8H18O2	2,2,4-trimethyl-1,3-pentanediol	144-19-4	gas	2.770	2
865	C8H10O	3,5-xlenol	108-68-9	in benzene	1.760	1	945	C8H18O2	di-t-butyl peroxide	110-05-4	in benzene	0.920	1
866	C8H11N	N,N-dimethylaniline	121-69-7	gas	1.679	1	946	C8H18O2	ethylene glycol monohexyl ether	112-25-4	gas	2.260	1
867	C8H11N	o-ethylaniline	578-54-1	gas	1.055	2	947	C8H18O2S	dibutyl sulfone	598-04-9	in benzene	4.467	1
868	C8H11N	N-ethylaniline	103-69-5	in benzene	1.700	1	948	C8H18O3	diethylene glycol monobutyl ether	112-34-5	in benzene	2.350	1
869	C8H11N	2,4,6-trimethylpyridine	108-75-8	in benzene	2.039	1	949	C8H18O3	dipropylene glycol monoethyl ether	30025-38-8	gas	1.178	2
870	C8H12	methylnorbornene	694-92-8	gas	1.508	2	950	C8H18O4	triethylene glycol dimethyl ether	112-49-2	in benzene	2.239	1
871	C8H12N2O2	hexamethylene diisocyanate	822-06-0	gas	3.238	2	951	C8H18O4	triethylene glycol monoethyl ether	112-50-5	gas	0.295	2
872	C8H12O4	diethyl maleate	141-05-9	in benzene	2.560	1	952	C8H18O4S	dibutyl sulfate	625-22-9	gas	4.137	2
873	C8H12S	3-ethyl-2,5-dimethylthiophene	55735-23-4	gas	0.222	2	953	C8H18O5	tetraethylene glycol	112-60-7	in dioxane	3.238	1
874	C8H14	1-octyne	629-05-0	in benzene	0.959	1	954	C8H18S	octyl mercaptan	111-88-6	in benzene	1.610	1
875	C8H14	2,5-dimethyl-1,5-hexadiene	627-58-7	gas	0.000	2	955	C8H18S	tert-octyl mercaptan	141-59-3	gas	1.670	2
876	C8H14	2,5-dimethyl-2,4-hexadiene	764-13-6	gas	0.000	2	956	C8H18S	dibutyl sulfide	544-40-1	in benzene	1.570	2
877	C8H14	cyclooctene	931-88-4	in heptane	0.821	1	957	C8H18S2	dibutyl disulfide	629-45-8	in benzene	1.990	2
878	C8H14O	2-ethyl-2-hexenal	645-62-5	gas	1.478	2	958	C8H19N	octylamine	111-86-4	in benzene	1.421	1
879	C8H14O2	butyl methacrylate	97-88-1	in benzene	2.150	1	959	C8H19N	dibutylamine	111-92-2	in benzene	0.980	1
880	C8H14O2	isobutyl methacrylate	97-86-9	gas	3.088	2	960	C8H20Si	tetraethylsilane	631-36-7	in benzene	0.390	1



Table 17 Dipole Moment – Organic Compounds

Dipole Moment							Dipole Moment						
ID	FORMULA	NAME	CAS No	state	Debye	code	ID	FORMULA	NAME	CAS No	state	Debye	code
961	C8H24O2Si3	octamethyltrisiloxane	107-51-7	in octane	1.079	1	1041	C9H20	2,2,3,3-tetramethylpentane	7154-79-2	gas	0.000	2
962	C8H24O4Si4	octamethylcyclotetrasiloxane	556-67-2	in benzene	0.660	1	1042	C9H20	2,2,3,4-tetramethylpentane	1186-53-4	gas	0.000	2
963	C9H6N2O2	toluene diisocyanate	584-84-9	in benzene	2.521	1	1043	C9H20	2,2,4,4-tetramethylpentane	1070-87-7	gas	0.000	2
964	C9H6O6	1,2,4-benzenetricarboxylic acid	528-44-9	in dioxane	3.268	1	1044	C9H20	2,3,3,4-tetramethylpentane	16747-38-9	gas	0.000	1
965	C9H7N	isoquinoline	119-65-3	in benzene	2.488	1	1045	C9H20O	1-nonanol	143-08-8	in benzene	1.610	1
966	C9H7N	quinoline	91-22-5	gas	2.290	1	1046	C9H20O	2-nonanol	628-99-9	gas	1.550	2
967	C9H7NO	8-hydroxyquinoline	148-24-3	in benzene	2.680	1	1047	C9H20O3	di(propylene glycol) propyl ether, isomers	29911-27-1	gas	1.679	2
968	C9H8	indene	95-13-6	in benzene	0.670	1	1048	C9H20O4	tripropylene glycol	24800-44-0	gas	0.411	2
969	C9H8O	2-methylbenzofuran	4265-25-2	gas	1.622	2	1049	C9H20S	tert-nonyl mercaptan, isomers	25360-10-5	gas	1.649	1
970	C9H8O2	trans-cinnamic acid	140-10-3	gas	1.310	2	1050	C9H21N	nonylamine	112-20-9	gas	0.899	2
971	C9H8O4	2-(acetoxy)benzoic acid	50-78-2	in dioxane	2.090	1	1051	C9H21N	tripropylamine	102-69-2	in benzene	0.740	1
972	C9H8S	2-methyl benzothiophene	1195-14-8	gas	1.124	2	1052	C10H7Br	1-bromonaphthalene	90-11-9	liquid	1.290	1
973	C9H10	indane	496-11-7	in benzene	0.540	1	1053	C10H7Cl	1-chloronaphthalene	90-13-1	liquid	1.330	1
974	C9H10	cis-1-propenylbenzene	766-90-5	in benzene	0.720	1	1054	C10H8	naphthalene	91-20-3	gas	0.000	2
975	C9H10	trans-1-propenylbenzene	873-66-5	in benzene	0.720	1	1055	C10H8	azulene	275-51-4	in benzene	1.080	2
976	C9H10	alpha-methylstyrene	98-83-9	in benzene	0.737	1	1056	C10H9N	2-methylquinoline	91-63-4	in benzene	1.940	1
977	C9H10	m-methylstyrene	100-80-1	in benzene	0.360	1	1057	C10H10	1-methylindene	767-59-9	gas	0.000	2
978	C9H10	o-methylstyrene	611-15-4	in benzene	0.480	1	1058	C10H10	2-methylindene	2177-47-1	gas	0.000	2
979	C9H10O	alpha-methylbenzeneacetaldehyde	93-53-8	in benzene	2.809	1	1059	C10H10O4	dimethyl phthalate	131-11-3	in benzene	2.779	1
980	C9H10O2	ethyl benzoate	93-89-0	gas	2.000	1	1060	C10H10O4	dimethyl terephthalate	120-61-6	in benzene	2.189	1
981	C9H10O2	benzyl acetate	140-11-4	in benzene	1.799	1	1061	C10H10O4	dimethyl isophthalate	1459-93-4	in benzene	2.230	1
982	C9H10O2	phenyl glycidyl ether	122-60-1	gas	2.042	2	1062	C10H11NO2	acetoacetanilide	102-01-2	gas	3.897	1
983	C9H10O2	phenyl ethyl formate	7775-38-4	gas	3.957	2	1063	C10H12	1,2,3,4-tetrahydronaphthalene	119-64-2	in benzene	0.219	1
984	C9H10O3	ethyl vanillin	121-32-4	gas	4.197	2	1064	C10H12	(1-methylenepropyl)benzene	2039-93-2	gas	0.000	2
985	C9H10O3	4-methoxybenzeneacetic acid	104-01-8	gas	1.340	2	1065	C10H12O	anethole	104-46-1	in benzene	1.499	1
986	C9H11NO	p-methylaminobenzaldehyde	100-10-7	in benzene	5.576	1	1066	C10H12O2	propyl benzoate	2315-68-6	in toluene	1.829	1
987	C9H11NO2	L-phenylalanine	63-91-2	gas	1.790	2	1067	C10H14	butylbenzene	104-51-8	in benzene	0.369	1
988	C9H12	cumene	98-82-8	liquid	0.390	1	1068	C10H14	isobutylbenzene	538-93-2	liquid	0.312	1
989	C9H12	m-ethyltoluene	620-14-4	liquid	0.330	1	1069	C10H14	sec-butylbenzene	135-98-8	in benzene	0.390	1
990	C9H12	o-ethyltoluene	611-14-3	liquid	0.561	1	1070	C10H14	tert-butylbenzene	98-06-6	gas	0.699	1
991	C9H12	p-ethyltoluene	622-96-8	in benzene	0.000	1	1071	C10H14	m-cymene	535-77-3	gas	0.360	2
992	C9H12	1,2,3-trimethylbenzene	526-73-8	liquid	0.561	1	1072	C10H14	o-cymene	527-84-4	gas	0.600	2
993	C9H12	1,2,4-trimethylbenzene	95-63-6	liquid	0.300	1	1073	C10H14	p-cymene	99-87-6	liquid	0.000	1
994	C9H12	mesitylene	108-67-8	liquid	0.000	1	1074	C10H14	1-methyl-2-propylbenzene	1074-17-5	gas	0.129	2
995	C9H12	propylbenzene	103-65-1	in benzene	0.369	1	1075	C10H14	1-methyl-3-propylbenzene	1074-43-7	gas	0.122	2
996	C9H12	ethylidene norbornene	16219-75-3	gas	0.205	2	1076	C10H14	1-methyl-4-propylbenzene	1074-55-1	gas	0.000	2
997	C9H12	5-vinyl-2-norbornene, endo and exo	3048-64-4	gas	0.112	1	1077	C10H14	o-diethylbenzene	135-01-3	liquid	0.590	1
998	C9H12O	benzenepropanol	122-97-4	in benzene	1.640	1	1078	C10H14	m-diethylbenzene	141-93-5	liquid	0.360	1
999	C9H12O	alpha-ethylbenzenemethanol	93-54-9	gas	1.589	2	1079	C10H14	p-diethylbenzene	105-05-5	liquid	0.000	1
1000	C9H12O	2-phenyl-1-propanol	1123-85-9	gas	1.391	2	1080	C10H14	5-ethyl-m-xylene	934-74-7	gas	0.201	2
1001	C9H12O	phenyl-2-propanol	698-87-3	gas	1.571	2	1081	C10H14	1,2,3,4-tetramethylbenzene	488-23-3	gas	0.000	2
1002	C9H12O2	cumene hydroperoxide	80-15-9	in benzene	1.785	1	1082	C10H14	1,2,4,5-tetramethylbenzene	95-93-2	in CCl4	0.000	1
1003	C9H14	ethylnorbene	15403-89-1	gas	0.384	2	1083	C10H14O	4-tert-butylphenol	98-54-4	in benzene	1.619	1
1004	C9H14	1-methyl-4-vinylcyclohexene	17699-86-4	gas	0.000	2	1084	C10H14O	1-methyl-3-(1-methylethoxy)benzene	19177-04-9	gas	0.165	2
1005	C9H14	propenyl cyclohexene	13511-13-2	gas	0.000	2	1085	C10H14O2	p-tert-butylcatechol	98-29-3	in dioxane	2.830	1
1006	C9H14O	isophorone	78-59-1	in dioxane	3.990	2	1086	C10H14O5	2-(methacryloyloxy)ethyl acetoacetate	21282-97-3	gas	0.059	2
1007	C9H14O6	glyceryl triacetate	102-76-1	in benzene	2.580	1	1087	C10H15N	N,N-diethylaniline	91-66-7	in benzene	1.811	1
1008	C9H14O7	trilic acid	78024-33-6	gas	3.897	2	1088	C10H15N	2,6-diethylaniline	579-66-8	gas	1.286	2
1009	C9H15N	N,N-diallyl-2-propen-1-amine	102-70-5	gas	0.654	2	1089	C10H16	D-limonene	5989-27-5	in benzene	1.570	1
1010	C9H16	1-nonyne	3452-09-3	gas	0.115	2	1090	C10H16	alpha-pinene	80-56-8	in benzene	0.360	1
1011	C9H16O4	azelaic acid	123-99-9	in dioxane	2.350	1	1091	C10H16	beta-pinene	127-91-3	gas	0.390	2
1012	C9H18	butylcyclopentane	2040-95-1	gas	0.000	1	1092	C10H16	alpha-terpinene	99-86-5	gas	0.000	2
1013	C9H18	propylcyclohexane	1678-92-8	gas	0.000	2	1093	C10H16	gamma-terpinene	99-85-4	gas	0.195	2
1014	C9H18	isopropylcyclohexane	696-29-7	gas	0.000	1	1094	C10H16	terpinolene	586-62-9	gas	0.000	2
1015	C9H18	cis,trans-1,3,5-trimethylcyclohexane	1795-26-2	gas	0.000	2	1095	C10H16	tricyclo[3.3.1.1,3,7]decane	281-23-2	in benzene	0.000	1
1016	C9H18	1-nonene	124-11-8	gas	0.360	2	1096	C10H16N2O8	ethylenediaminetetraacetic acid	60-00-4	gas	0.690	2
1017	C9H18	2-methyl-1-octene	4588-18-5	gas	0.000	2	1097	C10H16O	camphor	76-22-2	in benzene	3.100	1
1018	C9H18	7-methyl-1-octene	13151-06-9	gas	0.000	2	1098	C10H16O4	dimethyl cyclohexane-1,4-dicarboxylate; (cis)*	94-60-0	in benzene	2.090	1
1019	C9H18O	1-nonanal	124-19-6	gas	0.000	2	1099	C10H18	1-decyne	764-93-2	gas	0.119	2
1020	C9H18O	diisobutyl ketone	108-83-8	in CCl4	2.659	1	1100	C10H18	cis-decahydronaphthalene	493-01-6	gas	0.000	1
1021	C9H18O	2-nonanone	821-55-6	in benzene	2.740	1	1101	C10H18	trans-decahydronaphthalene	493-02-7	gas	0.000	1
1022	C9H18O	5-nonanone	502-56-7	in benzene	2.740	1	1102	C10H18O	a-terpineol	98-55-5	gas	1.472	2
1023	C9H18O2	nonanoic acid	112-05-0	gas	1.679	2	1103	C10H18O4	sebacic acid	111-20-6	in dioxane	2.400	1
1024	C9H18O2	2-methyloctanoic acid	3004-93-1	gas	0.714	1	1104	C10H20	butylcyclohexane	1678-93-9	gas	0.000	2
1025	C9H18O2	heptyl acetate	112-06-1	gas	1.820	2	1105	C10H20	1-decene	872-05-9	in benzene	0.420	1
1026	C9H18O2	butyl valerate	591-68-4	gas	2.069	2	1106	C10H20	2-methyl-1-nonene	2980-71-4	gas	0.000	2
1027	C9H18O3	triacetone alcohol	3682-91-5	gas	3.298	2	1107	C10H20	cis-2-decene	20348-51-0	gas	0.300	2
1028	C9H20	nonane	111-84-2	gas	0.000	2	1108	C10H20	trans-2-decene	20063-97-2	gas	0.000	2
1029	C9H20	2-methyloctane	3221-61-2	gas	0.000	2	1109	C10H20	8-methyl-1-nonene	26741-24-2	gas	0.000	2
1030	C9H20	3-methyloctane	2216-33-3	gas	0.000	2	1110	C10H20	1,1-diethylcyclohexane	78-01-3	gas	0.000	2
1031	C9H20	4-methyloctane	2216-34-4	gas	0.000	2	1111	C10H20	1,2,3,4-tetramethylcyclohexane	3726-45-2	gas	0.000	2
1032	C9H20	3-ethylheptane	15869-80-4	gas	0.000	2	1112	C10H20O	decanal	112-31-2	gas	2.578	2
1033	C9H20	4-ethylheptane	2216-32-2	gas	0.000	2	1113	C10H20O	(1R,2S,5R)-(-)-menthol	2216-51-5	gas	1.751	1
1034	C9H20	2,2-dimethylheptane	1071-26-7	gas	0.000	2	1114	C10H20O2	decanoic acid	334-48-5	in dioxane	1.679	1
1035	C9H20	2,6-dimethylheptane	1072-05-5	gas	0.000	2	1115	C10H20O2	nonyl formate	5451-92-3	gas	1.880	2
1036	C9H20	2,2,5-trimethylhexane	3522-94-9	gas	0.000	2	1116	C10H20O2	2-ethylhexyl acetate	103-09-3	gas	1.883	2
1037	C9H20	2,4,4-trimethylhexane	16747-30-1	gas	0.000	1	1117	C10H20O2	octyl acetate	112-14-1	in benzene	1.841	1
1038	C9H20	3,3-diethylpentane	1067-20-5	in benzene	0.000	1	1118	C10H20O2	isopentyl isovalerate	659-70-1	gas	2.179	2
1039	C9H20	2,2-dimethyl-3-ethylpentane	16747-32-3	gas	0.000	2	1119	C10H20O4	diethylene glycol monobutyl ether acetate	124-17-4	gas	2.141	2
1040	C9H20	2,4-dimethyl-3-ethylpentane	1068-87-7	gas	0.000	2	1120	C10H22	decane	124-18-5	gas	0.000	2

Table 17 Dipole Moment – Organic Compounds

Dipole Moment							Dipole Moment						
ID	FORMULA	NAME	CAS No	state	Debye	code	ID	FORMULA	NAME	CAS No	state	Debye	code
1121	C10H22	2-methylnonane	871-83-0	gas	0.000	2	1201	C12H16	methylcyclopentadiene dimer	26472-00-4	gas	0.248	2
1122	C10H22	3-methylnonane	5911-04-6	gas	0.000	2	1202	C12H18	hexylbenzene	1077-16-3	gas	0.000	2
1123	C10H22	4-methylnonane	17301-94-9	gas	0.000	2	1203	C12H18	1,2,4-triethylbenzene	877-44-1	gas	0.000	2
1124	C10H22	5-methylnonane	15869-85-9	gas	0.000	2	1204	C12H18	1,3,5-triethylbenzene	102-25-0	in benzene	0.100	1
1125	C10H22	2,2-dimethyloctane	15869-87-1	gas	0.000	2	1205	C12H18	hexamethylbenzene	87-85-4	in benzene	0.070	1
1126	C10H22	2,3-dimethyloctane	7146-60-3	gas	0.000	2	1206	C12H18	p-tert-butyl ethylbenzene	7364-19-4	gas	0.100	2
1127	C10H22	2,4-dimethyloctane	4032-94-4	gas	0.000	2	1207	C12H18	1,5,9-cyclododecatriene	706-31-0	gas	0.000	2
1128	C10H22	2,5-dimethyloctane	15869-89-3	gas	0.000	2	1208	C12H18	1,2,3-triethylebenzene	42205-08-3	gas	0.115	2
1129	C10H22	2,6-dimethyloctane	2051-30-1	gas	0.000	2	1209	C12H18N2O2	isophorone diisocyanate	4098-71-9	gas	1.235	2
1130	C10H22	2,7-dimethyloctane	1072-16-8	gas	0.000	2	1210	C12H18O2	m-diisopropylbenzene hydroperoxide	26762-93-6	gas	0.579	2
1131	C10H22	3,3,5-trimethylheptane	7154-80-5	gas	0.000	2	1211	C12H20	1,3-dimethyladamantane	702-79-4	gas	0.000	2
1132	C10H22	2,2,3,3-tetramethylhexane	13475-81-5	gas	0.000	2	1212	C12H20O	[1,1'-bicyclohexyl]-2-one	90-42-6	in benzene	2.920	1
1133	C10H22	2,2,5,5-tetramethylhexane	1071-81-4	gas	0.000	2	1213	C12H22O11	sucrose	57-50-1	in pyridine	2.800	1
1134	C10H22O	1-decanol	112-30-1	in benzene	1.619	1	1214	C12H22S	dicyclohexyl sulfide	7133-46-2	gas	1.598	2
1135	C10H22O	di-pentyl ether	693-65-2	in CCl4	1.199	1	1215	C12H23N	dicyclohexylamine	101-83-7	in heptane	1.061	1
1136	C10H22O2	1,10-decanediol	112-47-0	gas	2.144	2	1216	C12H24	1-dodecene	112-41-4	in benzene	0.519	1
1137	C10H22O2	2-(2-ethylhexyloxy)ethanol	1559-35-9	gas	0.321	2	1217	C12H24	cis-2-dodecene	7206-26-0	gas	0.000	2
1138	C10H22O3	di(ethylene glycol) hexyl ether	112-59-4	gas	1.529	2	1218	C12H24	trans-2-dodecene	7206-13-5	gas	0.000	2
1139	C10H22O3	di(propylene glycol) tert-butyl ether, isome*	132739-31-2	gas	3.088	2	1219	C12H24O	dodecanal	112-54-9	gas	2.578	2
1140	C10H22O4	2-[2-(2-butoxyethoxy)ethoxy]ethanol	143-22-6	gas	0.229	2	1220	C12H24O	isobutyl heptyl ketone	123-18-2	gas	2.470	2
1141	C10H22O4	(2-(2-methoxy methyl ethoxy)methyl ethoxy)pr*	25498-49-1	gas	3.568	2	1221	C12H24O2	dodecanoic acid	143-07-7	in dioxane	1.640	1
1142	C10H22O5	tetraethylene glycol dimethyl ether	143-24-8	in benzene	2.470	1	1222	C12H24O2	decyl acetate	112-17-4	gas	1.841	2
1143	C10H22S	decyl mercaptan	143-10-2	gas	1.649	2	1223	C12H24O3	2,2,4-trimethyl-1,3-pentanediol monoisobutyl*	77-68-9	gas	2.953	2
1144	C10H22S	ethyl octyl sulfide	3698-94-0	gas	1.382	2	1224	C12H26	dodecane	112-40-3	gas	0.000	2
1145	C10H23N	decylamine	2016-57-1	in benzene	1.409	1	1225	C12H26	3-methylundecane	1002-43-3	gas	0.000	2
1146	C10H23N	dipentylamine	2050-92-2	gas	1.199	1	1226	C12H26O	1-dodecanol	112-53-8	in benzene	1.691	1
1147	C10H24N2	N,N'-di-tert-butylethylenediamine	4062-60-6	gas	0.986	2	1227	C12H26S	1-dodecanethiol	112-55-0	gas	1.670	2
1148	C10H28N6	pentaethylenehexamine	4067-16-7	gas	1.421	2	1228	C12H26S	tert-dodecylmercaptan	25103-58-6	gas	1.471	2
1149	C10H30O3Si4	decamethyltetrasiloxane	141-62-8	liquid	1.220	1	1229	C12H27BO3	tributyl borate	688-74-4	in benzene	0.779	1
1150	C10H30O5Si5	decamethylcyclopentasiloxane	541-02-6	gas	1.349	1	1230	C12H27N	dodecylamine	124-22-1	gas	0.881	2
1151	C11H10	1-methylnaphthalene	90-12-0	in benzene	0.510	1	1231	C12H27N	tributylamine	102-82-9	in benzene	0.780	1
1152	C11H10	2-methylnaphthalene	91-57-6	in benzene	0.420	1	1232	C12H36O4Si5	dodecamethylpentasiloxane	141-63-9	liquid	0.950	1
1153	C11H12	p-isopropylstyrene	16262-48-9	gas	0.000	2	1233	C12H36O4Si5	tetrakis(trimethylsilyloxy)silane	3555-47-3	gas	1.559	1
1154	C11H14O2	butyl benzoate	136-60-7	in toluene	1.811	1	1234	C13H9N	acridine	260-94-6	in benzene	2.150	1
1155	C11H16	pentylbenzene	538-68-1	gas	0.000	2	1235	C13H10	fluorene	86-73-7	in benzene	0.249	1
1156	C11H16	1-ethyl-2-isopropylbenzene	18970-44-0	gas	0.119	2	1236	C13H10O	benzophenone	119-61-9	in benzene	2.980	1
1157	C11H16	pentamethylbenzene	700-12-9	in benzene	0.069	1	1237	C13H12	diphenylmethane	101-81-5	in benzene	0.770	1
1158	C11H16O	p-tert-amyphenol	80-46-6	gas	1.382	2	1238	C13H14	1-propylnaphthalene	2765-18-6	gas	0.000	2
1159	C11H20O2	2-ethylhexyl acrylate	103-11-7	gas	2.839	2	1239	C13H18O2	ibuprofen	15687-27-1	gas	2.779	2
1160	C11H22	1-undecene	821-95-4	in benzene	0.531	1	1240	C13H26	1-tridecene	2437-56-1	gas	0.000	2
1161	C11H22O	undecanal	112-44-7	gas	2.578	2	1241	C13H26O	1-tridecanal	10486-19-8	gas	2.578	2
1162	C11H22O2	undecanoic acid	112-37-8	gas	1.700	1	1242	C13H26O2	tridecanoic acid	638-53-9	gas	1.649	2
1163	C11H22O2	decyl formate	5451-52-5	gas	1.880	2	1243	C13H26O2	butyl nonanoate	50623-57-9	gas	2.179	2
1164	C11H22O2	nonyl acetate	143-13-5	gas	1.841	2	1244	C13H26O2	methyl dodecanoate	111-82-0	in dioxane	1.700	1
1165	C11H22O2	methyl decanoate	110-42-9	gas	2.081	1	1245	C13H28	tridecane	629-50-5	gas	0.000	2
1166	C11H24	undecane	1120-21-4	gas	0.000	2	1246	C13H28O	1-tridecanol	112-70-9	gas	1.649	2
1167	C11H24O	1-undecanol	112-42-5	in benzene	1.670	1	1247	C14H8O2	anthraquinone	84-65-1	gas	0.000	2
1168	C11H24O4	tripropylene glycol monoethyl ether	75899-69-3	gas	1.586	2	1248	C14H10	anthracene	120-12-7	gas	0.000	1
1169	C11H24S	1-undecanethiol	5332-52-5	gas	1.670	2	1249	C14H10	diphenylacetylene	501-65-5	in benzene	0.300	1
1170	C12H6N2O2	1,5-diisocyanatonaphthalene	3173-72-6	gas	0.000	2	1250	C14H10	phenanthrene	85-01-8	in benzene	0.000	1
1171	C12H8	acenaphthylene	208-96-8	in hexane	0.300	1	1251	C14H10O4	benzoyl peroxide	94-36-0	in benzene	1.601	1
1172	C12H8O	dibenzofuran	132-64-9	in benzene	0.881	1	1252	C14H12	cis-stilbene	645-49-8	gas	0.000	1
1173	C12H8O4	2,6-naphthalenedicarboxylic acid	1141-38-4	gas	0.287	2	1253	C14H12	trans-stilbene	103-30-0	gas	0.000	1
1174	C12H8S	dibenzothiophene	132-65-0	in benzene	0.791	1	1254	C14H12O2	benzyl benzoate	120-51-4	in benzene	2.440	1
1175	C12H9N	dibenzopyrrole	86-74-8	in benzene	2.110	1	1255	C14H12O4	dimethyl-2,6-naphthalenedicarboxylate	840-65-3	gas	2.932	2
1176	C12H9N3O4	4,4'-dinitrodiphenylamine	1821-27-8	in dioxane	5.126	1	1256	C14H14	1,1-diphenylethane	612-00-0	gas	0.000	2
1177	C12H10	acenaphthene	83-32-9	in benzene	0.255	1	1257	C14H14	1,2-diphenylethane	103-29-7	gas	0.455	1
1178	C12H10	phenylbenzene (biphenyl)	92-52-4	gas	0.000	2	1258	C14H14O	dibenzyl ether	103-50-4	in benzene	1.390	1
1179	C12H10Cl2Si	dichlorodiphenylsilane	80-10-4	in benzene	2.581	1	1259	C14H16	1-butylinaphthalene	1634-09-9	gas	0.690	1
1180	C12H10N2O2	4-nitro-N-phenylaniline	836-30-6	in benzene	5.996	1	1260	C14H16	2-butylinaphthalene	1134-62-9	not specified	0.750	2
1181	C12H10N2O2	2-nitro-N-phenylaniline	119-75-5	in benzene	4.130	1	1261	C14H16	2,6-diethylnaphthalene	59919-41-4	gas	0.145	2
1182	C12H10O	diphenyl ether	101-84-8	in benzene	1.160	1	1262	C14H18O4	dipropyl phthalate	131-16-8	in benzene	2.839	1
1183	C12H11N	p-aminodiphenyl	92-67-1	in benzene	1.760	1	1263	C14H18O8	di-1-glyceryl terephthalate	66032-51-76	gas	3.478	2
1184	C12H11N	diphenylamine	122-39-4	in benzene	1.079	1	1264	C14H20	diamantane	2292-79-7	gas	0.399	2
1185	C12H11N3	p-aminoazobenzene	60-09-3	in benzene	2.479	1	1265	C14H22	1,2,3,5-tetraethylbenzene	38842-05-6	gas	0.196	2
1186	C12H12	1,2-dimethylnaphthalene	573-98-8	gas	0.680	2	1266	C14H22	1,4-di-tert-butylbenzene	1012-72-2	in benzene	0.579	1
1187	C12H12	1,3-dimethylnaphthalene	575-41-7	gas	0.360	2	1267	C14H22O	p-tert-octylphenol	140-66-9	gas	1.223	2
1188	C12H12	1,5-dimethylnaphthalene	571-61-9	gas	0.070	2	1268	C14H28	1-tetradecene	1120-36-1	liquid	0.381	1
1189	C12H12	1,6-dimethylnaphthalene	575-43-9	gas	0.320	2	1269	C14H28O2	tetradecanoic acid	544-63-8	gas	1.679	2
1190	C12H12	1,7-dimethylnaphthalene	575-37-1	gas	0.540	2	1270	C14H30	tetradecane	629-59-4	gas	0.000	2
1191	C12H12	2,3-dimethylnaphthalene	581-40-8	gas	0.690	2	1271	C14H30O	1-tetradecanol	112-72-1	in benzene	1.550	1
1192	C12H12	2,6-dimethylnaphthalene	581-42-0	gas	0.140	1	1272	C14H31N	tetradecylamine	2016-42-4	gas	0.881	2
1193	C12H12	2,7-dimethylnaphthalene	582-16-1	gas	0.411	1	1273	C14H42O5Si6	tetradecamethylhexasiloxane	107-52-8	liquid	1.580	1
1194	C12H12	2-ethylnaphthalene	939-27-5	gas	0.000	2	1274	C15H12	1-phenylindene	1961-96-2	gas	0.000	2
1195	C12H12N2	p-aminodiphenylamine	101-54-2	in benzene	2.069	1	1275	C15H16O	p-cumylphenol	599-64-4	gas	4.437	2
1196	C12H12N2	hydrazobenzene	122-66-7	in benzene	1.850	1	1276	C15H18	1-pentylnaphthalene	86-89-5	gas	0.000	2
1197	C12H12N2	p-benzidine	92-87-5	in benzene	1.541	1	1277	C15H24O	2,6-di-tert-butyl-p-cresol	128-37-0	gas	1.319	2
1198	C12H14O4	diethyl phthalate	84-66-2	in benzene	2.731	1	1278	C15H24O	nonylphenol	25154-52-3	gas	1.238	2
1199	C12H16	4-tert-butylstyrene	1746-23-2	gas	0.000	2	1279	C15H30	trans-2-pentadecene	74392-36-2	gas	0.000	2
1200	C12H16	4-isobutylstyrene	63444-56-4	gas	0.468	2	1280	C15H30O2	pentadecanoic acid	1002-84-2	in dioxane	1.721	1

Table 17 Dipole Moment – Organic Compounds

Dipole Moment							Dipole Moment						
ID	FORMULA	NAME	CAS No	state	Debye	code	ID	FORMULA	NAME	CAS No	state	Debye	code
1281	C15H32	pentadecane	629-62-9	gas	0.000	2	1361	C23H40	heptadecylbenzene	14752-75-1	gas	0.000	2
1282	C15H32O	1-pentadecanol	629-76-5	gas	1.649	2	1362	C23H48	tricosane	638-67-5	gas	0.000	2
1283	C15H33N	tripentylamine	621-77-2	in benzene	1.031	1	1363	C24H38O4	dioctyl phthalate	117-84-0	in benzene	2.839	2
1284	C16H10	fluoranthene	206-44-0	gas	0.228	1	1364	C24H38O4	bis(2-ethylhexyl) phthalate	117-81-7	in benzene	2.839	1
1285	C16H10	pyrene	129-00-0	in benzene	0.000	1	1365	C24H38O4	bis(2-ethylhexyl) terephthalate	4654-26-6	in benzene	2.539	1
1286	C16H12	1-phenylnaphthalene	605-02-7	gas	0.000	2	1366	C24H38O4	heptyl nonyl phthalate	19295-81-9	gas	3.358	2
1287	C16H16O2	trans-3,5-dimethoxystilbene	21956-56-9	gas	1.253	2	1367	C24H42	octadecylbenzene	4445-07-2	gas	0.000	2
1288	C16H18	4-ethyl-bibenzyl	7439-15-8	gas	0.000	2	1368	C24H42O	dinonylphenol	1323-65-5	gas	1.490	2
1289	C16H22O4	dibutyl phthalate	84-74-2	in benzene	2.821	1	1369	C24H50	tetracosane	646-31-1	gas	0.000	2
1290	C16H26	decylbenzene	104-72-3	gas	0.000	2	1370	C24H51N	triethylamine	1116-76-3	gas	0.800	1
1291	C16H26	pentaethylbenzene	605-01-6	gas	0.000	2	1371	C25H20	tetraphenylmethane	630-76-2	in benzene	0.000	1
1292	C16H32	1-hexadecene	629-73-2	in benzene	0.510	1	1372	C25H52	pentacosane	629-99-2	gas	0.000	2
1293	C16H32O2	hexadecanoic acid	57-10-3	in dioxane	1.739	1	1373	C26H20	tetraphenylethylene	632-51-9	gas	0.000	1
1294	C16H34	hexadecane	544-76-3	gas	0.000	2	1374	C26H22	1,1,2,2-tetraphenylethane	632-50-8	in benzene	0.000	1
1295	C16H34	2,2,4,4,6,8,8-heptamethylnonane	4390-04-9	gas	0.000	2	1375	C26H42O4	diisononyl phthalate	28553-12-0	gas	3.717	2
1296	C16H34O	1-hexadecanol	36653-82-4	in benzene	1.670	1	1376	C26H42O4	dinonyl phthalate	84-76-4	in benzene	2.920	1
1297	C16H34S	dioctyl sulfide	2690-08-6	in benzene	1.550	1	1377	C26H42O4	heptyl undecyl phthalate	65185-88-8	gas	3.358	2
1298	C16H34S2	dioctyl disulfide	822-27-5	in benzene	1.990	2	1378	C26H54	hexacosane	630-01-3	gas	0.000	2
1299	C16H35N	dioctylamine	1120-48-5	gas	1.166	2	1379	C27H46O	cholesterol	57-88-5	in benzene	1.721	1
1300	C16H35N	bis(2-ethylhexyl)amine	106-20-7	gas	0.914	2	1380	C27H56	heptacosane	593-49-7	gas	0.000	2
1301	C16H48O6Si7	hexadecamethylheptasiloxane	541-01-5	liquid	1.211	1	1381	C28H46O4	didecyl phthalate	84-77-5	gas	3.687	2
1302	C17H34O2	heptadecanoic acid	506-12-7	in dioxane	1.691	1	1382	C28H58	octacosane	630-02-4	gas	0.000	2
1303	C17H34O2	isopropyl tetradecanoate	110-27-0	gas	2.099	2	1383	C29H50O	stigmast-5-en-3-ol, (3beta)	83-46-5	in CCl4	1.931	1
1304	C17H36	heptadecane	629-78-7	gas	0.000	2	1384	C29H60	nonacosane	630-03-5	gas	0.000	2
1305	C17H36O	1-heptadecanol	1454-85-9	gas	1.649	2	1385	C30H48O6	tri-n-heptyl trimellitate	1528-48-9	gas	3.148	2
1306	C18H12	chrysene	218-01-9	in benzene	0.699	1	1386	C30H50O4	diundecyl phthalate	3648-20-2	gas	3.448	2
1307	C18H12	benz[a]anthracene	56-55-3	gas	0.000	1	1387	C30H60	1-triacontene	18435-53-5	gas	0.237	2
1308	C18H12	naphthacene	92-24-0	gas	0.000	1	1388	C30H62	triacontane	638-68-6	gas	0.000	2
1309	C18H14	m-terphenyl	92-06-8	liquid	2.000	1	1389	C30H62	2,6,10,15,19,23-hexamethyltetracosane	111-01-3	gas	0.000	2
1310	C18H14	o-terphenyl	84-15-1	gas	0.103	2	1390	C31H64	hentriacontane	630-04-6	gas	0.000	2
1311	C18H14	p-terphenyl	92-94-4	in benzene	0.600	1	1391	C32H66	dotriacontane	544-85-4	gas	0.000	2
1312	C18H15OP	triphenylphosphine oxide	791-28-6	inb	4.287	1	1392	C33H68	tritriacontane	630-05-7	gas	0.000	2
1313	C18H15O4P	triphenyl phosphate	115-86-6	in benzene	2.809	1	1393	C34H70	tetratracontane	14167-59-0	gas	0.000	2
1314	C18H15P	triphenylphosphine	603-35-0	in benzene	1.448	1	1394	C35H72	pentatriacontane	630-07-9	gas	0.000	2
1315	C18H16N2	N,N'-diphenyl-p-phenylenediamine	74-31-7	in benzene	1.841	1	1395	C36H74	hexatriacontane	630-06-8	gas	0.000	2
1316	C18H22	2,3-dimethyl-2,3-diphenylbutane	1889-67-4	in benzene	0.000	1	1396	C37H76	heptatriacontane	7194-84-5	gas	0.000	2
1317	C18H30	dodecylbenzene	123-01-3	gas	0.000	2	1397	C38H78	octatriacontane	7194-85-6	gas	0.000	2
1318	C18H30	hexaethylbenzene	604-88-6	gas	0.000	2	1398	C39H80	nonatriacontane	7194-86-7	gas	0.000	2
1319	C18H30O2	linolenic acid	463-40-1	in benzene	1.559	1	1399	C40H82	tetracontane	4181-95-7	gas	0.000	2
1320	C18H32O2	linoleic acid	60-33-3	in benzene	1.217	1	1400	C41H84	n-hentetracontane	7194-87-8	gas	0.000	2
1321	C18H34O2	oleic acid	112-80-1	liquid	1.439	1	1401	C42H86	n-dotetracontane	7098-20-6	gas	0.000	2
1322	C18H34O4	dibutyl sebacate	109-43-3	gas	2.479	1	1402	C43H88	tritetracontane	7098-21-7	gas	0.000	2
1323	C18H34O4	dihexyl adipate	110-33-8	gas	0.465	2	1403	C44H90	n-tetratetracontane	7098-22-8	gas	0.000	2
1324	C18H36	1-octadecene	112-88-9	liquid	0.369	1	1404	C45H92	n-pentatetracontane	---	gas	0.000	2
1325	C18H36O2	octadecanoic acid	57-11-4	in dioxane	1.670	1	1405	C46H94	n-hexatetracontane	7098-24-0	gas	0.000	2
1326	C18H38	octadecane	593-45-3	gas	0.000	2	1406	C47H96	n-heptatetracontane	---	gas	0.000	2
1327	C18H38O	1-octadecanol	112-92-5	in benzene	1.661	1	1407	C48H98	n-octatetracontane	7098-26-2	gas	0.000	2
1328	C18H54O7Si8	octadecamethyloctasiloxane	556-69-4	gas	0.000	2	1408	C49H100	n-nonatetracontane	---	gas	0.000	2
1329	C19H16	triphenylmethane	519-73-3	in benzene	0.210	1	1409	C50H102	n-pentacontane	6596-40-3	gas	0.000	2
1330	C19H26	1-nonylnaphthalene	26438-26-6	gas	0.000	2	1410	C51H104	n-henpentacontane	---	gas	0.000	2
1331	C19H32	tridecylbenzene	123-02-4	gas	0.000	2	1411	C52H106	n-dopentacontane	7719-79-1	gas	0.000	2
1332	C19H38O2	nonadecanoic acid	646-30-0	gas	1.649	2	1412	C53H108	n-tripentacontane	---	gas	0.000	2
1333	C19H40	nonadecane	629-92-5	gas	0.000	2	1413	C54H110	n-tetrapentacontane	5856-66-6	gas	0.000	2
1334	C19H40O	1-nonadecanol	1454-84-8	gas	1.649	2	1414	C55H112	n-pentapentacontane	5846-40-2	gas	0.000	2
1335	C20H18	1,1',1''-(1-ethanyl-2-ylidene)trisbenzene	1520-42-9	gas	0.137	2	1415	C56H114	n-hexapentacontane	7719-82-6	gas	0.000	2
1336	C20H28	1-decyl-naphthalene	26438-27-7	gas	0.000	2	1416	C57H104O6	glycerol trioleate	122-32-7	in benzene	3.148	1
1337	C20H30O2	palustric acid	1945-53-5	gas	2.266	2	1417	C57H116	n-heptapentacontane	5856-67-7	gas	0.000	2
1338	C20H30O2	pimaric acid	127-27-5	gas	1.142	2	1418	C58H118	n-octapentacontane	7667-78-9	gas	0.000	2
1339	C20H30O2	dehydroabietic acid	471-77-2	gas	1.670	2	1419	C59H120	n-nonapentacontane	7667-79-0	gas	0.000	2
1340	C20H30O2	isopimaric acid	5835-26-7	gas	5.396	2	1420	C60H122	n-hexacontane	7667-80-3	gas	0.000	2
1341	C20H30O4	dihexyl phthalate	84-75-3	in benzene	2.899	1	1421	C61H124	n-henhexacontane	7667-81-4	gas	0.000	2
1342	C20H32O2	isoagatholal	17990-11-3	gas	3.568	2	1422	C62H126	n-dohexacontane	7719-83-7	gas	0.000	2
1343	C20H34	1-phenyltetradecane	1459-10-5	gas	0.000	2	1423	C63H128	n-trihexacontane	7719-84-8	gas	0.000	2
1344	C20H34O2	agathadiol	1857-24-5	gas	1.337	2	1424	C64H130	n-tetrahexacontane	7719-87-1	gas	0.000	2
1345	C20H38O2	cetyl methacrylate	2495-27-4	in toluene	1.811	1	1425	C65H132	n-pentahexacontane	7719-88-2	gas	0.000	2
1346	C20H40	1-eicosene	3452-07-1	gas	0.000	2	1426	C66H134	n-hexahexacontane	7719-89-3	gas	0.000	2
1347	C20H40	trans-2-eicosene	42448-85-1	gas	0.205	2	1427	C67H136	n-heptahexacontane	7719-90-6	gas	0.000	2
1348	C20H40O2	eicosanoic acid	506-30-9	gas	1.670	2	1428	C68H138	n-octahexacontane	7719-91-7	gas	0.000	2
1349	C20H42	eicosane	112-95-8	gas	0.000	2	1429	C69H140	n-nonahexacontane	7719-92-8	gas	0.000	2
1350	C20H42O	1-eicosanol	629-96-9	liquid	1.829	1	1430	C70H142	n-heptacontane	7719-93-9	gas	0.000	2
1351	C21H21O4P	tri-o-cresyl phosphate	78-30-8	in benzene	2.869	1	1431	C71H144	n-henheptacontane	7667-82-5	gas	0.000	2
1352	C21H30O2	dehydroabietic acid	1740-19-8	gas	1.919	2	1432	C72H146	n-dohheptacontane	7667-83-6	gas	0.000	2
1353	C21H36	pentadecylbenzene	2131-18-2	gas	0.000	2	1433	C73H148	n-triheptacontane	7667-84-7	gas	0.000	2
1354	C21H40O4	glycerol 1-monooleate	111-03-5	gas	1.316	2	1434	C74H150	n-tetraheptacontane	7667-85-8	gas	0.000	2
1355	C21H44	heneicosane	629-94-7	gas	0.000	2	1435	C75H152	n-pentaheptacontane	7667-86-9	gas	0.000	2
1356	C22H34O4	diheptyl phthalate	3648-21-3	in benzene	2.680	1	1436	C76H154	n-hexaheptacontane	7667-87-0	gas	0.000	2
1357	C22H38	1-phenylhexadecane	1459-09-2	gas	0.000	2	1437	C77H156	n-heptaheptacontane	7719-94-0	gas	0.000	2
1358	C22H42O4	di-n-octyl adipate	123-79-5	gas	0.758	2	1438	C78H158	n-octaheptacontane	7719-85-9	gas	0.000	2
1359	C22H44O2	butyl stearate	123-95-5	in benzene	1.880	1	1439	C79H160	n-nonaheptacontane	7719-86-0	gas	0.000	2
1360	C22H46	docosane	629-97-0	gas	0.000	2	1440	C80H162	n-octacontane	7667-88-1	gas	0.000	2

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Dipole Moment							Dipole Moment						
ID	FORMULA	NAME	CAS No	state	Debye	code	ID	FORMULA	NAME	CAS No	state	Debye	code
1441	C81H164	n-henooctacontane	7667-89-2	gas	0.000	2	1451	C91H184	n-hennonacontane	7719-97-3	gas	0.000	2
1442	C82H166	n-dooctacontane	7719-95-1	gas	0.000	2	1452	C92H186	n-dononacontane	7667-95-0	gas	0.000	2
1443	C83H168	n-trioctacontane	7667-90-5	gas	0.000	2	1453	C93H188	n-trinonacontane	7667-96-1	gas	0.000	2
1444	C84H170	n-tetraoctacontane	7667-91-6	gas	0.000	2	1454	C94H190	n-tetranonacontane	1574-32-9	gas	0.000	2
1445	C85H172	n-pentaoctacontane	7719-96-2	gas	0.000	2	1455	C95H192	n-pentanonacontane	7667-97-2	gas	0.000	2
1446	C86H174	n-hexaoctacontane	7667-92-7	gas	0.000	2	1456	C96H194	n-hexanonacontane	7763-13-5	gas	0.000	2
1447	C87H176	n-heptaoctacontane	7667-93-8	gas	0.000	2	1457	C97H196	n-heptanonacontane	7670-25-9	gas	0.000	2
1448	C88H178	n-octaoctacontane	7667-94-9	gas	0.000	2	1458	C98H198	n-octanonacontane	7670-26-0	gas	0.000	2
1449	C89H180	n-nonaoctacontane	7719-76-8	gas	0.000	2	1459	C99H200	n-nonanonacontane	7670-27-1	gas	0.000	2
1450	C90H182	n-nonacontane	7667-51-8	gas	0.000	2	1460	C100H202	n-hectane	6703-98-6	gas	0.000	2
Code: 1 - data, 2 - estimate													
*Use ID or CAS No for complete name (See Chapter 1 of this book).													