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

NO	FORMULA	NAME	Refractive Index		Dipole Moment		Radius of Gyration
			T, C	Value @ T	State	Debye	Angstrom
313	C4H9Cl	sec-BUTYL CHLORIDE	25.0	1.3941	gas	2.04	3.324
314	C4H9Cl	tert-BUTYL CHLORIDE	25.0	1.3828	gas	2.13	3.152
315	C4H9I	2-IODO-2-METHYLPROPANE	25.0	1.4890	in benzene	2.15	———
316	C4H9N	PYRROLIDINE	25.0	1.4402	in benzene	1.58	2.700
317	C4H9NO	N,N-DIMETHYLACETAMIDE	25.0	1.4356	gas	3.81	3.368
318	C4H9NO	MORPHOLINE	25.0	1.4521	in benzene	1.54	3.042
319	C4H9NO2	1-NITROBUTANE	25.0	1.4080	in benzene	3.40	———
320	C4H9NO2	2-NITROBUTANE	25.0	1.4019	——	——	———
321	C4H10	n-BUTANE	25.0	1.3292	gas	0.00	2.886
322	C4H10	ISOBUTANE	-25.2	1.3514	gas	0.13	2.948
323	C4H10N2	PIPERAZINE	112.9	1.4460	in benzene	1.47	3.035
324	C4H10O	n-BUTANOL	25.0	1.3971	gas	1.66	3.251
325	C4H10O	sec-BUTANOL	25.0	1.3949	in benzene	1.66	3.203
326	C4H10O	tert-BUTANOL	25.0	1.3852	in benzene	1.67	3.067
327	C4H10O	DIETHYL ETHER	25.0	1.3495	gas	1.15	3.177
328	C4H10O	METHYL-PROPYL-ETHER	25.0	1.3544	in benzene	1.24	———
329	C4H10O	METHYL ISOPROPYL ETHER	25.0	1.3576	——	——	3.125
330	C4H10O	ISOBUTANOL	25.0	1.3938	gas	1.64	3.332
331	C4H10O2	1,3-BUTANEDIOL	25.0	1.4390	——	——	3.455
332	C4H10O2	1,4-BUTANEDIOL	25.0	1.4445	liquid	3.93	3.582
333	C4H10O2	2,3-BUTANEDIOL	25.0	1.4310	in benzene	2.10	3.371
334	C4H10O2	t-BUTYL HYDROPEROXIDE	25.0	1.3983	in benzene	1.81	3.295
335	C4H10O2	1,2-DIMETHOXYETHANE	25.0	1.3781	in benzene	1.71	3.328
336	C4H10O2	2-ETHOXYETHANOL	25.0	1.4057	in benzene	2.08	3.392
337	C4H10O3	DIETHYLENE GLYCOL	25.0	1.4460	liquid	5.49	3.739
338	C4H10O4S	DIETHYL SULFATE	19.9	1.3989	——	——	4.239
339	C4H10S	n-BUTYL MERCAPTAN	25.0	1.4403	in benzene	1.53	3.400
340	C4H10S	ISOBUTYL MERCAPTAN	25.0	1.4360	in benzene	1.53	3.455
341	C4H10S	sec-BUTYL MERCAPTAN	25.0	1.4339	in benzene	1.55	3.362
342	C4H10S	tert-BUTYL MERCAPTAN	25.0	1.4200	in benzene	1.59	3.185
343	C4H10S	DIETHYL SULFIDE	25.0	1.4402	gas	1.54	3.212
344	C4H10S	ISOPROPYL-METHYL-SULFIDE	25.0	1.4363	——	——	———
345	C4H10S	METHYL-PROPYL-SULFIDE	25.0	1.4416	——	——	———
346	C4H10S2	DIETHYL DISULFIDE	25.0	1.5047	in benzene	1.96	———
347	C4H11N	n-BUTYLAMINE	25.0	1.3987	in benzene	1.39	3.289
348	C4H11N	ISOBUTYLAMINE	25.0	1.3945	in benzene	1.27	3.230
349	C4H11N	sec-BUTYLAMINE	25.0	1.3907	in benzene	1.28	3.201
350	C4H11N	tert-BUTYLAMINE	25.0	1.3761	in benzene	1.29	3.048
351	C4H11N	DIETHYLAMINE	25.0	1.3825	gas	0.92	3.172
352	C4H11NO	DIMETHYLETHANOLAMINE	25.0	1.4277	in benzene	2.21	3.463
353	C4H11NO2	DIETHANOLAMINE	19.9	1.4747	in dioxane	0.85	3.907
354	C4H11NO2	2-AMINOETHOXYETHANOL	19.9	1.4610	——	——	3.737
355	C4H12N2O	N-AMINOETHYL ETHANOLAMINE	19.9	1.4861	——	——	3.821
356	C4H12Si	TETRAMETHYLSILANE	25.0	1.3582	liquid	0.00	———
357	C4H13N3	DIETHYLENE TRIAMINE	25.0	1.4810	——	——	3.865
358	C5Cl6	HEXACHLOROCYCLOPENTADIENE	25.0	1.5626	liquid	0.72	5.310
359	C5H4O2	FURFURAL	25.0	1.5234	in benzene	3.60	3.350
360	C5H5N	PYRIDINE	25.0	1.5075	gas	2.19	2.938
361	C5H6	CYCLOPENTADIENE	19.9	1.4429	gas	0.42	2.752
362	C5H6	2-METHYL-1-BUTENE-3-YNE	25.0	1.4151	in benzene	0.55	3.224
363	C5H6	1-PENTENE-3-YNE	25.0	1.4490	gas	0.66	3.086
364	C5H6	1-PENTENE-4-YNE	25.0	1.4125	——	——	3.025
365	C5H6N2	GLUTARONITRILE	25.0	1.4332	——	——	3.972
366	C5H6O2	FURFURYL ALCOHOL	25.0	1.4831	in benzene	1.92	3.422
367	C5H6O3	GLUTARIC ANHYDRIDE	——	——	——	——	3.651
368	C5H6O4	CITRACONIC ACID	——	——	——	——	3.744
369	C5H6O4	ITACONIC ACID	——	——	in dioxane	2.25	4.185
370	C5H6S	2-METHYLTHIOPHENE	25.0	1.5174	in benzene	0.67	———
371	C5H6S	3-METHYLTHIOPHENE	25.0	1.5176	in benzene	0.82	———
372	C5H7N	N-METHYLPYRROLE	19.9	1.4875	gas	2.10	3.082
373	C5H7NO2	ETHYL CYANOACETATE	20.5	1.4179	gas	2.17	4.180
374	C5H8	CYCLOPENTENE	25.0	1.4194	gas	0.20	2.728
375	C5H8	ISOPRENE	25.0	1.4185	gas	0.25	3.213
376	C5H8	3-METHYL-1,2-BUTADIENE	25.0	1.4169	——	——	3.021
377	C5H8	2-METHYL-1,3-BUTADIENE	25.0	1.4185	gas	0.15	———
378	C5H8	1,2-PENTADIENE	25.0	1.4177	——	——	3.262
379	C5H8	cis-1,3-PENTADIENE	25.0	1.4329	——	——	3.212
380	C5H8	trans-1,3-PENTADIENE	25.0	1.4267	gas	0.68	3.087
381	C5H8	1,4-PENTADIENE	25.0	1.3854	in benzene	0.38	3.049
382	C5H8	2,3-PENTADIENE	25.0	1.4251	——	——	3.301
383	C5H8	1-PENTYNE	25.0	1.3822	gas	0.81	3.115
384	C5H8	2-PENTYNE	25.0	1.4009	——	——	———
385	C5H8	3-METHYL-1-BUTYNE	25.0	1.3695	——	——	3.327
386	C5H8	SPIROPENTANE	——	——	——	——	———
387	C5H8N4O12	PENTAERYTHRITOL TETRANITRATE	——	——	in dioxane	2.48	6.929
388	C5H8O	CYCLOPENTANONE	19.9	1.4359	in benzene	2.93	3.165
389	C5H8O	METHYL ISOPROPENYL KETONE	25.0	1.4212	in benzene	2.74	3.480
390	C5H8O2	ACETYLACETONE	25.0	1.4465	gas	2.81	4.017