		RACTIVE INDEX, DIPOLE MOMENT	Defra	Refractive Index		Dipole Moment	
				Value @	T State	Debye	Angstrom
N	FORMULA	NAME	т, с	1.2170		0.00	3.889
23		OCTAFLUOROCYCLOBUTANE	25.0				4.368
23	_	DECAFLUOROBUTANE					-
23	_	BUTADIYNE(BIACETYLENE)		1,4688	in dioxane	3.93	3.312
23		MALEIC ANHYDRIDE	64.4	1.4161	000	0.40	2.552
23		VINYLACETYLENE	25.0	1.4173	In diayana	3.83	3.361
24		SUCCINONITRILE	59.9	1.4173	000	0.66	2.559
24	_	FURAN	25.0	1.4379		3.54	2.998
24		DIKETENE	19.9	1,4375	in benzene	3.83	3.281
243		SUCCINIC ANHYDRIDE			in dioxane	2.45	4.139
244	_	FUMARIC ACID			in dioxane	3.17	4.221
245	_	MALEIC ACID		1.5057	gas	0.55	2.781
246	_	THIOPHENE	25.0	1.5257	gas	1.43	3.274
247		CHLOROPRENE	19.9	1.4583		4.53	2.893
248	-	trans-CROTONITRILE	19.9	1.4225	gas	4.08	2.924
249		cis-CROTONITRILE	29.9	1.4134	gas	3.69	3.172
250	_	METHACRYLONITRILE	25.0	1.3989	gas	1.84	2.567
251		PYRROLE	25.0	1.5078	gas	1.04	
252		VINYLACETONITRILE	25.0	1.4050			2.979
253		METHYL CYANOACETATE	25.0	1.4166			3.733
254							
255		CYCLOBUTENE	1.4	1,4205	gas	0.40	2.724
256	C4H6	1,2-BUTADIENE	-25.2	1.4293	gas	0.00	2.602
257		1,3-BUTADIENE	25.0	1.3893			2.519
	C4H6	DIMETHYLACETYLENE	25.0	1.0000	gas	0.81	2.770
258	C4H6	ETHYLACETYLENE		1.4695	in benzene	2.15	4.074
259	C4H6CI2	1,3-DICHLORO-trans-2-BUTENE	25.0	-			3.820
260	C4H6CI2	1,4-DICHLORO-cis-2-BUTENE	25.0	1.4887		+=+	3.832
261	C4H6CI2	1,4-DICHLORO-trans-2-BUTENE	25.0	1.4863			
262	C4H6Cl2	3,4-DICHLORO-1-BUTENE	25.0	1.4615		++	3.934
263	C4H6O	trans-CROTONALDEHYDE	19.9	1.4373	gas	3.67	3.087
264	C4H6O	2,5-DIHYDROFURAN	25.0	1.4340	in benzene	1.54	2.580
265	C4H6O	DIVINYL ETHER			in benzene	1.07	2.951
266	C4H6O	METHACROLEIN	19.9	1.4169	gas	2.68	3.121
267	C4H6O2	2-BUTYNE-1,4-DIOL	25.0	1.4500	in benzene	2.63	3.715
268	C4H6O2	gamma-BUTYROLACTONE	25.0	1.4348	gas	3.82	2.642
269	C4H6O2	cis-CROTONIC ACID .	19.9	1.4456			3.342
270	C4H6O2	trans-CROTONIC ACID	79.9	1.4228	in benzene	2.13	3.493
271	C4H6O2	METHACRYLIC ACID	25.0	1.4288	in benzene	1.65	3.412
272	C4H6O2	METHYL ACRYLATE	25.0	1.4003	III DOIIZOIIO	1.00	
273	C4H6O2	VINYL ACETATE	25.0	1.3934	in honzono	170	3.280
274	C4H6O3	ACETIC ANHYDRIDE	19.9		in benzene	1.79	2.969
275	C4H6O4	SUCCINIC ACID		1.3892	gas	2.80	3.579
	C4H6O5	DIGLYCOLIC ACID	24.9	1.3373	gas	2.20	4.159
277	C4H6O5	MALIC ACID					4.475
_	C4H6O6	TARTARIC ACID	25.0	1.3516	gas	3.12	4.209
_	C4H7N	n-BUTYRONITRILE			in dioxane	3.24	4.289
	C4H7N	ISOBUTYRONITRILE	25.0	1.3820	gas	4.07	3.088
-	C4H7NO	ACETONE CYANOHYDRIN	25.0	1.3712	gas	4.29	3.211
_	C4H7NO	2-METHACRYLAMIDE			in benzene	3.17	3.344
_	C4H7NO						3.380
$\overline{}$	C4H7NO	3-METHOXYPROPIONITRILE	19.9	1.4032			3.387
-	C4H8	2-PYRROLIDONE	25.0	1.4860	in benzene	3.10	
_	C4H8	1-BUTENE	-125.2	1.3803	gas	0.34	3.074
		cis-2-BUTENE	-25.2	1.3842	gas		2.762
-	C4H8	trans-2-BUTENE	-25.2	1.3932		0.30	2.833
_	C4H8	CYCLOBUTANE	25.0	1.3620	gas	0.00	2.734
_	C4H8	ISOBUTENE	-25.2	1.3926	gas	0.00	2.450
_	C4H8Br2	1,2-DIBROMOBUTANE	25.0	1.5125	gas	0.50	2.875
_	C4H8Br2	2,3-DIBROMOBUTANE	25.0	1.5125			
_	C4H8CI2	1,4-DICHLOROBUTANE	25.0				
	24H8I2	1,2-DIIODOBUTANE	25.0	1.4522	gas	2.22	3.760
	24H8O	n-BUTYRALDEHYDE	25.0	1.6000	-		
-	24H8O	ISOBUTYRALDEHYDE	25.0	1.3766	gas	2.72	3.185
_	24H8O	1,2-EPOXYBUTANE		1.3698	gas	2.70	3.176
_	24H8O	METHYL ETHYL KETONE	25.0	1.3810	in benzene	2.01	2.960
_	24H8O	ETHYL VINYL ETHER	25.0	1.3764	benzene/dioxane	2.76	
	24H8O	TETRAHYDROFURAN	25.0	1.3729	gas	1.27	3.135
_	4H8O2	ds-2-BUTENE-1,4-DIOL	25.0	1.4050	gas		2.940
1 C	4H8O2	trans-2-BUTENE-1,4-DIOI	25.0	1.4716	in benzene	1.63	2.694
2 C	4H8O2	ISOBUTYRIC ACID			in benzene	2.50	3.516
3 C	4H8O2	n-BUTYRIC ACID	25.0	1.3908	liquid	2.47	3.530
4 C	4H8O2	1,4-DIOXANE	25.0	1.3958		1.09	3.444
_	4H8O2	ETHYL ACETATE	25.0	1.4202	liquid	1.23	3.610
_	4H8O2	METHYL PROPIONATE	25.0	1.3704	gas	0.00	3.017
_	4H8O2	n-PROPYL FORMATE	25.0	1.3742	gas	1.78	3.468
_	4H8O2S	SULFOLANE	25.0		in benzene	1.70	3.490
-	1H8S		19.9	1.3750	in benzene	1.91	3.364
_	H9Br	TETRAHYDROTHIOPHENE	25.0	1.4780	in benzene	4.69	3.309
) (~	** 1001	1-BROMOBUTANE		1.5074	in benzene		
_	LUODA		26.0				
C4	H9Br	2-BROMOBUTANE	25.0	1.4378		1.90	2.898
C4	H9Br H9Cl	2-BROMOBUTANE n-BUTYL CHLORIDE	25.0	1.4378 1.4342 1.4001	gas gas	2.08	3.132 3.123