

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	
703	C7H14	CYCLOHEPTANE	25.0	1.4424	gas	0.00	3.555
704	C7H14	1,1-DIMETHYLCYCLOPENTANE	25.0	1.4109	gas	0.00	3.430
705	C7H14	cis-1,2-DIMETHYLCYCLOPENTANE	25.0	1.4196	gas	0.00	3.617
706	C7H14	trans-1,2-DIMETHYLCYCLOPENTANE	25.0	1.4094	gas	0.00	3.607
707	C7H14	cis-1,3-DIMETHYLCYCLOPENTANE	25.0	1.4063	gas	0.00	3.633
708	C7H14	trans-1,3-DIMETHYLCYCLOPENTANE	25.0	1.4081	gas	0.00	3.644
709	C7H14	ETHYLCYCLOPENTANE	25.0	1.4173	gas	0.00	3.734
710	C7H14	2-ETHYL-1-PENTENE	25.0	1.4020	—	—	4.181
711	C7H14	3-ETHYL-1-PENTENE	25.0	1.3955	—	—	3.950
712	C7H14	1-HEPTENE	25.0	1.3971	liquid	0.34	4.083
713	C7H14	cis-2-HEPTENE	25.0	1.4042	—	—	4.138
714	C7H14	trans-2-HEPTENE	25.0	1.4020	—	—	4.138
715	C7H14	cis-3-HEPTENE	25.0	1.4033	—	—	4.024
716	C7H14	trans-3-HEPTENE	25.0	1.4017	—	—	4.031
717	C7H14	METHYLCYCLOHEXANE	25.0	1.4206	gas	0.00	3.643
718	C7H14	2-METHYL-1-HEXENE	25.0	1.4008	—	—	4.199
719	C7H14	3-METHYL-1-HEXENE	25.0	1.3938	—	—	4.201
720	C7H14	4-METHYL-1-HEXENE	25.0	1.3973	—	—	3.972
721	C7H14	2,3,3-TRIMETHYL-1-BUTENE	25.0	1.4001	—	—	3.584
722	C7H14O	DIISOPROPYL KETONE	25.0	1.3976	in benzene	2.73	3.904
723	C7H14O	2-HEPTANONE	25.0	1.4066	in benzene	2.61	4.498
724	C7H14O	1-HEPTANAL	25.0	1.4094	in benzene	2.58	4.314
725	C7H14O	1-METHYLCYCLOHEXANOL	24.7	1.4587	—	—	3.670
726	C7H14O	cis-2-METHYLCYCLOHEXANOL	23.9	1.4633	—	—	3.821
727	C7H14O	trans-2-METHYLCYCLOHEXANOL	25.0	1.4597	—	—	3.824
728	C7H14O	cis-3-METHYLCYCLOHEXANOL	—	—	gas	1.77	3.931
729	C7H14O	trans-3-METHYLCYCLOHEXANOL	—	—	gas	1.93	3.937
730	C7H14O	cis-4-METHYLCYCLOHEXANOL	—	—	—	—	3.869
731	C7H14O	trans-4-METHYLCYCLOHEXANOL	25.0	1.4584	—	—	3.854
732	C7H14O	5-METHYL-2-HEXANONE	25.0	1.4544	—	—	4.329
733	C7H14O2	n-BUTYL PROPIONATE	25.0	1.4047	—	—	4.822
734	C7H14O2	ETHYL ISOVALERATE	25.0	1.4000	in benzene	1.80	4.481
735	C7H14O2	ISOPENTYL ACETATE	25.0	1.3975	in benzene	1.97	4.656
736	C7H14O2	n-PENTYL ACETATE	25.0	1.3981	in benzene	1.80	4.772
737	C7H14O2	n-PROPYL n-BUTYRATE	19.9	1.4028	in benzene	1.90	4.832
738	C7H14O2	n-HEPTANOIC ACID	25.0	1.3976	liquid	1.75	4.842
739	C7H14O3	ETHYL-3-ETHOXYPROPIONATE	25.0	1.4210	—	—	5.086
740	C7H15Br	1-BROMOHEPTANE	25.0	1.4041	—	—	4.485
741	C7H15N	N-METHYLCYCLOHEXYLAMINE	25.0	1.4481	gas	2.16	3.888
742	C7H16	2,2-DIMETHYLPENTANE	22.9	1.4530	—	—	3.922
743	C7H16	2,3-DIMETHYLPENTANE	25.0	1.3795	liquid	0.00	3.917
744	C7H16	2,4-DIMETHYLPENTANE	25.0	1.3895	liquid	0.00	3.931
745	C7H16	3,3-DIMETHYLPENTANE	25.0	1.3788	liquid	0.00	3.768
746	C7H16	3-ETHYLPENTANE	25.0	1.3884	liquid	0.00	3.943
747	C7H16	n-HEPTANE	25.0	1.3908	liquid	0.00	4.173
748	C7H16	2-METHYLHEXANE	25.0	1.3851	gas	0.00	4.167
749	C7H16	3-METHYLHEXANE	25.0	1.3823	liquid	0.00	4.078
750	C7H16	2,2,3-TRIMETHYLBUTANE	25.0	1.3861	liquid	0.00	3.960
751	C7H16O	1-HEPTANOL	25.0	1.3869	liquid	0.00	4.380
752	C7H16O	2-HEPTANOL	25.0	1.4223	in benzene	1.67	4.483
753	C7H16O	5-METHYL-1-HEXANOL	25.0	1.4190	in benzene	1.73	4.563
754	C7H16O	ISOPROPYL-TERT-BUTYL-ETHER	25.0	1.4220	—	—	—
755	C7H16S	n-HEPTYL MERCAPTAN	—	—	—	—	—
756	C7H16S	BUTYL-PROPYL-SULFIDE	25.0	1.4498	liquid	1.55	4.642
757	C7H16S	ETHYL-PENTYL-SULFIDE	—	—	—	—	—
758	C7H16S	HEXYL-METHYL-SULFIDE	—	—	—	—	—
759	C7H17N	1-AMINOHEPTANE	25.0	1.4505	—	—	—
760	C8H4Cl2O2	ISOPHTHALOYL CHLORIDE	25.0	1.4228	in benzene	1.60	4.423
761	C8H4O3	PHTHALIC ANHYDRIDE	25.0	1.5700	in benzene	5.16	5.520
762	C8H6	ETHYNYLBENZENE	—	—	in benzene	5.29	4.383
763	C8H6O4	ISOPHTHALIC ACID	—	—	—	—	—
764	C8H6O4	PHTHALIC ACID	—	—	in dioxane	2.27	5.080
765	C8H6O4	TEREPHTHALIC ACID	—	—	in dioxane	2.60	4.763
766	C8H6S	BENZOTHIOPHENE	—	—	—	—	—
767	C8H7N	INDOLE	34.9	1.6332	—	—	4.969
768	C8H8	STYRENE	19.9	1.6300	in benzene	0.63	3.984
769	C8H8	1,3,5,7-CYCLOOCTATETRAENE	25.0	1.5440	in benzene	2.08	3.781
770	C8H8O	ACETOPHENONE	—	—	liquid	0.13	3.810
771	C8H8O	p-TOLUALDEHYDE	19.9	1.5342	—	—	—
772	C8H8O2	METHYL BENZOATE	—	—	gas	3.02	4.090
773	C8H8O2	o-TOLUIC ACID	25.0	1.5146	in dioxane	3.30	4.133
774	C8H8O2	p-TOLUIC ACID	114.9	1.5120	in benzene	2.53	4.362
775	C8H8O3	METHYL SALICYLATE	—	—	in benzene	1.70	4.387
776	C8H8O3	VANILLIN	19.9	1.5239	—	—	4.350
777	C8H9NO	ACETANILIDE	—	—	in benzene	2.47	4.468
778	C8H10	ETHYLBENZENE	—	—	in benzene	2.87	4.704
779	C8H10	m-XYLENE	25.0	1.4932	in benzene	4.04	4.345
780	C8H10	o-XYLENE	25.0	1.4946	gas	0.59	3.897
			25.0	1.5029	liquid	0.30	3.937
					gas	0.62	3.836