

TABLE I. Molar volume of He⁴ (cm³/mole).

$T(^{\circ}\text{K}) \backslash P(\text{atm})$	0.493	0.996	2.70 ± 0.05	5.06 ± 0.01	8.00 ± 0.05	10.01 ± 0.01	13.00 ± 0.05	15.01 ± 0.01	17.97 ± 0.01	20.10 ± 0.05	22.08 ± 0.01	24.93 ± 0.01	27.10 ± 0.05	28.00 ± 0.01
1.250	(27.3942)	(27.2494)	(26.753)	26.137	25.486	25.124	24.598	24.313	23.900	23.645	23.397	23.078	...	...
1.300	27.3933	27.2480	26.751	26.134	25.482	25.120	24.593	24.308	23.894	23.638	23.389	23.070	...	...
1.350	27.392	27.246	26.748	26.130	25.477	25.114	24.587	24.301	23.886	23.629	23.380	23.059	...	...
1.400	27.390	27.243	26.745	26.125	25.471	25.108	24.579	24.293	23.876	23.619	23.368	23.047	...	...
1.450	27.387	27.240	26.740	26.120	25.464	25.100	24.570	24.283	23.865	23.606	23.355	23.031	...	...
1.500	27.383	27.237	26.735	26.113	25.456	25.090	24.559	24.271	23.852	23.591	23.338	23.011	...	...
1.550	27.379	27.232	26.729	26.105	25.445	25.079	24.546	24.256	23.835	23.572	23.318	22.988	in solid	...
1.600	27.374	27.226	26.721	26.095	25.434	25.066	24.531	24.239	23.816	23.550	23.294	22.958	(22.759)	...
1.650	27.369	27.220	26.712	26.084	25.420	25.050	24.512	24.218	23.792	23.524	23.264	22.923	22.714	in solid
1.700	27.362	27.212	26.702	26.071	25.403	25.032	24.490	24.195	23.764	23.493	23.228	22.878	22.660	22.512
1.750	27.354	27.203	26.690	26.056	25.384	25.010	24.467	24.166	23.731	23.454	23.182	22.821	22.589	22.430
1.800	27.345	27.193	26.676	26.038	25.361	24.987	24.435	24.133	23.691	23.406	23.128	22.749	22.485	22.318
1.850	27.335	27.181	26.661	26.018	25.336	24.957	24.400	24.093	23.641	23.345	23.053	22.639	22.437	22.303
1.900	27.322	27.168	26.643	25.994	25.307	24.922	24.358	24.044	23.578	23.269	22.957	22.624	22.436	22.303
1.950	27.308	27.152	26.622	25.967	25.272	24.881	24.304	23.981	23.492	23.203	22.947	22.626	22.440	22.308
2.000	27.293	27.135	26.597	25.935	25.229	24.831	24.238	23.898	23.463	23.200	22.949	22.631	22.447	22.316
2.050	27.273	27.112	26.568	25.897	25.178	24.764	24.183	23.886	23.463	23.203	22.955	22.639	22.456	22.326
2.100	27.251	27.088	26.532	25.846	25.114	24.727	24.182	23.889	23.469	23.212	22.964	22.648	22.466	22.337
2.150	27.222	27.051	26.478	25.804	25.111	24.731	24.188	23.898	23.480	23.223	22.976	22.660	22.477	22.348
2.200	27.203	27.035	26.481	25.812	25.121	24.741	24.199	23.910	23.491	23.236	22.988	22.672	22.490	22.361
2.250	27.226	27.059	26.500	25.828	25.136	24.756	24.213	23.923	23.504	23.250	23.002	22.686	22.503	22.375
2.300	27.259	27.090	26.525	25.850	25.153	24.774	24.229	23.938	23.519	23.264	23.017	22.701	22.517	22.388
2.400	27.343	27.170	26.590	25.905	25.201	24.816	24.268	23.973	23.552	23.296	23.049	22.731	22.546	22.418
2.500	27.442	27.263	26.670	25.969	25.254	24.866	24.310	24.015	23.591	23.333	23.084	22.763	22.579	22.450
2.600	27.559	27.372	26.761	26.042	25.315	24.921	24.357	24.062	23.633	23.372	23.121	22.797	22.613	22.484
2.700	27.694	27.495	26.862	26.125	25.382	24.981	24.410	24.111	23.678	23.413	23.159	22.833	22.648	22.520
2.800	27.839	27.631	26.974	26.216	25.456	25.045	24.466	24.163	23.725	23.457	23.201	22.871	22.686	22.556
2.900	27.999	27.782	27.095	26.312	25.534	25.115	24.527	24.218	23.775	23.503	23.245	22.912	22.725	22.594
3.000	28.173	27.946	27.225	26.417	25.618	25.189	24.590	24.276	23.826	23.552	23.292	22.954	22.767	22.634
3.100	28.366	28.121	27.369	26.527	25.707	25.266	24.656	24.336	23.881	23.602	23.340	22.999	22.810	22.675
3.200	28.581	28.315	27.521	26.646	25.801	25.348	24.727	24.400	23.938	23.656	23.389	23.045	22.854	22.717
3.300	28.815	28.533 ^a	27.686	26.773	25.902	25.436	24.801	24.467	23.998	23.712	23.440	23.093	22.900	22.761
3.400	29.071	28.759 ^a	27.864	26.909	26.009	25.529	24.880	24.538	24.060	23.770	23.494	23.142	22.946	22.806
3.500	29.352	29.013 ^a	28.053	27.050	26.119	25.625	24.960	24.612	24.124	23.830	23.550	23.193	22.994	22.853
3.600	in gas	29.292 ^a	28.262	27.200	26.233	25.727	25.045	24.690	24.193	23.892	23.609	23.246	23.045	22.903
3.700	...	29.602 ^a	28.487	27.361	26.353	25.832	25.133	24.770	24.263	23.956	23.668	23.301	23.095	22.954
3.800	...	29.940 ^a	28.719 ^a	27.533	26.480	25.942	25.226	24.853	24.337	24.024	23.731	23.358	23.147	23.006
3.900	...	30.324 ^a	28.976 ^a	27.720	26.612	26.060	25.323	24.941	24.412	24.093	23.795	23.417	23.202	23.060
4.000	...	30.751 ^a	29.258 ^a	27.911	26.753	26.182	25.422	25.031	24.491	24.162	23.861	23.478	23.256	23.115
4.200	...	31.839 ^a	...	28.349	27.049	26.445	...	25.222	24.657	24.304	24.002	23.607	23.372	23.232

^a Indicates reading uncertainty of more than ± 0.001 .TABLE II. Thermal expansion coefficient of He⁴ ($10^{-3}^{\circ}\text{K}^{-1}$).

$T(^{\circ}\text{K}) \backslash P(\text{atm})$	0.493	0.996	2.70	5.06	8.00	10.01	13.00	15.01	17.97	20.10	22.08	24.93	27.10	28.00
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