



Issued: July 2018

Volume correction factors — gasoline

Density at 15 °C = 730 kg/m³ (table 54B)

Refer to bulletin V-18 for more information on product classes.

Volume correction factors to 15 °C for use with all grades of gasoline and gasoline ethanol blends (15% maximum ethanol)										
Temperature °C	0	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90
-40	1.0672	1.0673	1.0674	1.0675	1.0677	1.0678	1.0679	1.0680	1.0681	1.0683
-39	1.0660	1.0661	1.0662	1.0664	1.0665	1.0666	1.0667	1.0668	1.0670	1.0671
-38	1.0648	1.0649	1.0650	1.0652	1.0653	1.0654	1.0655	1.0656	1.0658	1.0659
-37	1.0636	1.0637	1.0639	1.0640	1.0641	1.0642	1.0643	1.0645	1.0646	1.0647
-36	1.0624	1.0625	1.0627	1.0628	1.0629	1.0630	1.0631	1.0633	1.0634	1.0635
-35	1.0612	1.0613	1.0615	1.0616	1.0617	1.0618	1.0619	1.0621	1.0622	1.0623
-34	1.0600	1.0602	1.0603	1.0604	1.0605	1.0606	1.0608	1.0609	1.0610	1.0611
-33	1.0588	1.0590	1.0591	1.0592	1.0593	1.0594	1.0596	1.0597	1.0598	1.0599
-32	1.0576	1.0578	1.0579	1.0580	1.0581	1.0582	1.0584	1.0585	1.0586	1.0587
-31	1.0564	1.0566	1.0567	1.0568	1.0569	1.0570	1.0572	1.0573	1.0574	1.0575
-30	1.0552	1.0554	1.0555	1.0556	1.0557	1.0558	1.0560	1.0561	1.0562	1.0563
-29	1.0540	1.0542	1.0543	1.0544	1.0545	1.0546	1.0548	1.0549	1.0550	1.0551
-28	1.0528	1.0530	1.0531	1.0532	1.0533	1.0534	1.0536	1.0537	1.0538	1.0539
-27	1.0516	1.0518	1.0519	1.0520	1.0521	1.0522	1.0524	1.0525	1.0526	1.0527
-26	1.0504	1.0505	1.0507	1.0508	1.0509	1.0510	1.0511	1.0513	1.0514	1.0515
-25	1.0492	1.0493	1.0495	1.0496	1.0497	1.0498	1.0499	1.0501	1.0502	1.0503
-24	1.0480	1.0481	1.0483	1.0484	1.0485	1.0486	1.0487	1.0489	1.0490	1.0491

**Volume correction factors to 15 °C for use with all grades of gasoline and gasoline ethanol blends
(15% maximum ethanol)**

Temperature °C	0	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90
-23	1.0468	1.0469	1.0470	1.0472	1.0473	1.0474	1.0475	1.0476	1.0478	1.0479
-22	1.0456	1.0457	1.0458	1.0460	1.0461	1.0462	1.0463	1.0464	1.0466	1.0467
-21	1.0444	1.0445	1.0446	1.0447	1.0449	1.0450	1.0451	1.0452	1.0453	1.0455
-20	1.0432	1.0433	1.0434	1.0435	1.0436	1.0438	1.0439	1.0440	1.0441	1.0443
-19	1.0419	1.0421	1.0422	1.0423	1.0424	1.0426	1.0427	1.0428	1.0429	1.0430
-18	1.0407	1.0409	1.0410	1.0411	1.0412	1.0413	1.0415	1.0416	1.0417	1.0418
-17	1.0395	1.0396	1.0398	1.0399	1.0400	1.0401	1.0402	1.0404	1.0405	1.0406
-16	1.0383	1.0384	1.0385	1.0387	1.0388	1.0389	1.0390	1.0392	1.0393	1.0394
-15	1.0371	1.0372	1.0373	1.0374	1.0376	1.0377	1.0378	1.0379	1.0381	1.0382
-14	1.0359	1.0360	1.0361	1.0362	1.0363	1.0365	1.0366	1.0367	1.0368	1.0370
-13	1.0346	1.0348	1.0349	1.0350	1.0351	1.0352	1.0354	1.0355	1.0356	1.0357
-12	1.0334	1.0335	1.0337	1.0338	1.0339	1.0340	1.0341	1.0343	1.0344	1.0345
-11	1.0322	1.0323	1.0324	1.0326	1.0327	1.0328	1.0329	1.0330	1.0332	1.0333
-10	1.0310	1.0311	1.0312	1.0313	1.0315	1.0316	1.0317	1.0318	1.0319	1.0321
-9	1.0297	1.0299	1.0300	1.0301	1.0302	1.0304	1.0305	1.0306	1.0307	1.0308
-8	1.0285	1.0286	1.0288	1.0289	1.0290	1.0291	1.0293	1.0294	1.0295	1.0296
-7	1.0273	1.0274	1.0275	1.0277	1.0278	1.0279	1.0280	1.0281	1.0283	1.0284
-6	1.0261	1.0262	1.0263	1.0264	1.0265	1.0267	1.0268	1.0269	1.0270	1.0272
-5	1.0248	1.0249	1.0251	1.0252	1.0253	1.0254	1.0256	1.0257	1.0258	1.0259
-4	1.0236	1.0237	1.0238	1.0240	1.0241	1.0242	1.0243	1.0245	1.0246	1.0247
-3	1.0224	1.0225	1.0226	1.0227	1.0229	1.0230	1.0231	1.0232	1.0233	1.0235

**Volume correction factors to 15 °C for use with all grades of gasoline and gasoline ethanol blends
(15% maximum ethanol)**

Temperature °C	0	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90
-2	1.0211	1.0213	1.0214	1.0215	1.0216	1.0217	1.0219	1.0220	1.0221	1.0222
-1	1.0199	1.0200	1.0201	1.0203	1.0204	1.0205	1.0206	1.0208	1.0209	1.0210
0	1.0187	1.0188	1.0189	1.0190	1.0192	1.0193	1.0194	1.0195	1.0196	1.0198
0	1.0187	1.0185	1.0184	1.0183	1.0182	1.0180	1.0179	1.0178	1.0177	1.0175
1	1.0174	1.0173	1.0172	1.0171	1.0169	1.0168	1.0167	1.0166	1.0164	1.0163
2	1.0162	1.0161	1.0159	1.0158	1.0157	1.0156	1.0154	1.0153	1.0152	1.0151
3	1.0149	1.0148	1.0147	1.0146	1.0144	1.0143	1.0142	1.0141	1.0140	1.0138
4	1.0137	1.0136	1.0135	1.0133	1.0132	1.0131	1.0130	1.0128	1.0127	1.0126
5	1.0125	1.0123	1.0122	1.0121	1.0120	1.0118	1.0117	1.0116	1.0115	1.0113
6	1.0112	1.0111	1.0110	1.0108	1.0107	1.0106	1.0105	1.0104	1.0102	1.0101
7	1.0100	1.0099	1.0097	1.0096	1.0095	1.0094	1.0092	1.0091	1.0090	1.0089
8	1.0087	1.0086	1.0085	1.0084	1.0082	1.0081	1.0080	1.0079	1.0077	1.0076
9	1.0075	1.0074	1.0072	1.0071	1.0070	1.0069	1.0067	1.0066	1.0065	1.0064
10	1.0062	1.0061	1.0060	1.0059	1.0057	1.0056	1.0055	1.0054	1.0052	1.0051
11	1.0050	1.0049	1.0047	1.0046	1.0045	1.0044	1.0042	1.0041	1.0040	1.0039
12	1.0037	1.0036	1.0035	1.0034	1.0032	1.0031	1.0030	1.0029	1.0028	1.0026
13	1.0025	1.0024	1.0023	1.0021	1.0020	1.0019	1.0018	1.0016	1.0015	1.0014
14	1.0013	1.0011	1.0010	1.0009	1.0008	1.0006	1.0005	1.0004	1.0003	1.0001
15	1.0000	0.9999	0.9997	0.9996	0.9995	0.9994	0.9992	0.9991	0.9990	0.9989
16	0.9987	0.9986	0.9985	0.9984	0.9982	0.9981	0.9980	0.9979	0.9977	0.9976
17	0.9975	0.9974	0.9972	0.9971	0.9970	0.9969	0.9967	0.9966	0.9965	0.9964

**Volume correction factors to 15 °C for use with all grades of gasoline and gasoline ethanol blends
(15% maximum ethanol)**

Temperature °C	0	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90
18	0.9962	0.9961	0.9960	0.9959	0.9957	0.9956	0.9955	0.9954	0.9952	0.9951
19	0.9950	0.9949	0.9947	0.9946	0.9945	0.9944	0.9942	0.9941	0.9940	0.9939
20	0.9937	0.9936	0.9935	0.9934	0.9932	0.9931	0.9930	0.9929	0.9927	0.9926
21	0.9925	0.9924	0.9922	0.9921	0.9920	0.9918	0.9917	0.9916	0.9915	0.9913
22	0.9912	0.9911	0.9910	0.9908	0.9907	0.9906	0.9905	0.9903	0.9902	0.9901
23	0.9900	0.9898	0.9897	0.9896	0.9895	0.9893	0.9892	0.9891	0.9890	0.9888
24	0.9887	0.9886	0.9885	0.9883	0.9882	0.9881	0.9879	0.9878	0.9877	0.9876
25	0.9874	0.9873	0.9872	0.9871	0.9869	0.9868	0.9867	0.9866	0.9864	0.9863
26	0.9862	0.9861	0.9859	0.9858	0.9857	0.9856	0.9854	0.9853	0.9852	0.9850
27	0.9849	0.9848	0.9847	0.9845	0.9844	0.9843	0.9842	0.9840	0.9839	0.9838
28	0.9837	0.9835	0.9834	0.9833	0.9832	0.9830	0.9829	0.9828	0.9826	0.9825
29	0.9824	0.9823	0.9821	0.9820	0.9819	0.9818	0.9816	0.9815	0.9814	0.9813
30	0.9811	0.9810	0.9809	0.9808	0.9806	0.9805	0.9804	0.9802	0.9801	0.9800
31	0.9799	0.9797	0.9796	0.9795	0.9794	0.9792	0.9791	0.9790	0.9789	0.9787
32	0.9786	0.9785	0.9783	0.9782	0.9781	0.9780	0.9778	0.9777	0.9776	0.9775
33	0.9773	0.9772	0.9771	0.9770	0.9768	0.9767	0.9766	0.9764	0.9763	0.9762
34	0.9761	0.9759	0.9758	0.9757	0.9756	0.9754	0.9753	0.9752	0.9751	0.9749
35	0.9748	0.9747	0.9745	0.9744	0.9743	0.9742	0.9740	0.9739	0.9738	0.9737
36	0.9735	0.9734	0.9733	0.9731	0.9730	0.9729	0.9728	0.9726	0.9725	0.9724
37	0.9723	0.9721	0.9720	0.9719	0.9718	0.9716	0.9715	0.9714	0.9712	0.9711
38	0.9710	0.9709	0.9707	0.9706	0.9705	0.9704	0.9702	0.9701	0.9700	0.9698

Volume correction factors to 15 °C for use with all grades of gasoline and gasoline ethanol blends (15% maximum ethanol)										
Temperature °C	0	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90
39	0.9697	0.9696	0.9695	0.9693	0.9692	0.9691	0.9690	0.9688	0.9687	0.9686
40	0.9684	0.9683	0.9682	0.9681	0.9679	0.9678	0.9677	0.9676	0.9674	0.9673
41	0.9672									

Density at 15 °C = 730 kg/m³

Values calculated as per API Standard 2540 (1980), Chapter 11.1

To obtain the net volume of liquid at 15 °C, multiply the uncompensated meter reading by the volume correction factor which corresponds to the average measured temperature of the liquid during the delivery.