



Measurement
Canada

An Agency of
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Mesures
Canada

Un organisme
d'Industrie Canada

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Density at 15 °C = 880 kg/m³ (table 54D)

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

Volume correction factors to 15 °C for use with all grades of lubricating oils (SAE)										
Temperature °C	0	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90
-40	1.0387									
-39	1.0380	1.0381	1.0382	1.0383	1.0383	1.0384	1.0385	1.0385	1.0386	1.0387
-38	1.0373	1.0374	1.0375	1.0376	1.0376	1.0377	1.0378	1.0378	1.0379	1.0380
-37	1.0367	1.0367	1.0368	1.0369	1.0369	1.0370	1.0371	1.0371	1.0372	1.0373
-36	1.0360	1.0360	1.0361	1.0362	1.0362	1.0363	1.0364	1.0364	1.0365	1.0366
-35	1.0353	1.0353	1.0354	1.0355	1.0355	1.0356	1.0357	1.0357	1.0358	1.0359
-34	1.0346	1.0346	1.0347	1.0348	1.0348	1.0349	1.0350	1.0351	1.0351	1.0352
-33	1.0339	1.0339	1.0340	1.0341	1.0341	1.0342	1.0343	1.0344	1.0344	1.0345
-32	1.0332	1.0332	1.0333	1.0334	1.0334	1.0335	1.0336	1.0337	1.0337	1.0338
-31	1.0325	1.0325	1.0326	1.0327	1.0328	1.0328	1.0329	1.0330	1.0330	1.0331
-30	1.0318	1.0318	1.0319	1.0320	1.0321	1.0321	1.0322	1.0323	1.0323	1.0324
-29	1.0311	1.0311	1.0312	1.0313	1.0314	1.0314	1.0315	1.0316	1.0316	1.0317
-28	1.0304	1.0304	1.0305	1.0306	1.0307	1.0307	1.0308	1.0309	1.0309	1.0310
-27	1.0297	1.0297	1.0298	1.0299	1.0300	1.0300	1.0301	1.0302	1.0302	1.0303
-26	1.0290	1.0290	1.0291	1.0292	1.0293	1.0293	1.0294	1.0295	1.0295	1.0296
-25	1.0283	1.0283	1.0284	1.0285	1.0286	1.0286	1.0287	1.0288	1.0288	1.0289
-24	1.0276	1.0276	1.0277	1.0278	1.0279	1.0279	1.0280	1.0281	1.0281	1.0282
-23	1.0269	1.0269	1.0270	1.0271	1.0272	1.0272	1.0273	1.0274	1.0274	1.0275

Volume correction factors to 15 °C for use with all grades of lubricating oils (SAE)										
Temperature °C	0	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90
-22	1.0262	1.0262	1.0263	1.0264	1.0265	1.0265	1.0266	1.0267	1.0267	1.0268
-21	1.0255	1.0255	1.0256	1.0257	1.0258	1.0258	1.0259	1.0260	1.0260	1.0261
-20	1.0248	1.0248	1.0249	1.0250	1.0251	1.0251	1.0252	1.0253	1.0253	1.0254
-19	1.0241	1.0241	1.0242	1.0243	1.0244	1.0244	1.0245	1.0246	1.0246	1.0247
-18	1.0234	1.0234	1.0235	1.0236	1.0236	1.0237	1.0238	1.0239	1.0239	1.0240
-17	1.0227	1.0227	1.0228	1.0229	1.0229	1.0230	1.0231	1.0232	1.0232	1.0233
-16	1.0220	1.0220	1.0221	1.0222	1.0222	1.0223	1.0224	1.0225	1.0225	1.0226
-15	1.0213	1.0213	1.0214	1.0215	1.0215	1.0216	1.0217	1.0218	1.0218	1.0219
-14	1.0206	1.0206	1.0207	1.0208	1.0208	1.0209	1.0210	1.0210	1.0211	1.0212
-13	1.0199	1.0199	1.0200	1.0201	1.0201	1.0202	1.0203	1.0203	1.0204	1.0205
-12	1.0191	1.0192	1.0193	1.0194	1.0194	1.0195	1.0196	1.0196	1.0197	1.0198
-11	1.0184	1.0185	1.0186	1.0187	1.0187	1.0188	1.0189	1.0189	1.0190	1.0191
-10	1.0177	1.0178	1.0179	1.0179	1.0180	1.0181	1.0182	1.0182	1.0183	1.0184
-9	1.0170	1.0171	1.0172	1.0172	1.0173	1.0174	1.0175	1.0175	1.0176	1.0177
-8	1.0163	1.0164	1.0165	1.0165	1.0166	1.0167	1.0167	1.0168	1.0169	1.0170
-7	1.0156	1.0157	1.0158	1.0158	1.0159	1.0160	1.0160	1.0161	1.0162	1.0163
-6	1.0149	1.0150	1.0151	1.0151	1.0152	1.0153	1.0153	1.0154	1.0155	1.0155
-5	1.0142	1.0143	1.0143	1.0144	1.0145	1.0146	1.0146	1.0147	1.0148	1.0148
-4	1.0135	1.0136	1.0136	1.0137	1.0138	1.0139	1.0139	1.0140	1.0141	1.0141
-3	1.0128	1.0129	1.0129	1.0130	1.0131	1.0131	1.0132	1.0133	1.0134	1.0134
-2	1.0121	1.0122	1.0122	1.0123	1.0124	1.0124	1.0125	1.0126	1.0126	1.0127

Volume correction factors to 15 °C for use with all grades of lubricating oils (SAE)										
Temperature °C	0	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90
-1	1.0114	1.0114	1.0115	1.0116	1.0117	1.0117	1.0118	1.0119	1.0119	1.0120
0	1.0107	1.0107	1.0108	1.0109	1.0109	1.0110	1.0111	1.0112	1.0112	1.0113
0	1.0107	1.0106	1.0105	1.0105	1.0104	1.0103	1.0102	1.0102	1.0101	1.0100
1	1.0100	1.0099	1.0098	1.0097	1.0097	1.0096	1.0095	1.0095	1.0094	1.0093
2	1.0092	1.0092	1.0091	1.0090	1.0090	1.0089	1.0088	1.0088	1.0087	1.0086
3	1.0085	1.0085	1.0084	1.0083	1.0083	1.0082	1.0081	1.0080	1.0080	1.0079
4	1.0078	1.0078	1.0077	1.0076	1.0075	1.0075	1.0074	1.0073	1.0073	1.0072
5	1.0071	1.0070	1.0070	1.0069	1.0068	1.0068	1.0067	1.0066	1.0066	1.0065
6	1.0064	1.0063	1.0063	1.0062	1.0061	1.0061	1.0060	1.0059	1.0058	1.0058
7	1.0057	1.0056	1.0056	1.0055	1.0054	1.0053	1.0053	1.0052	1.0051	1.0051
8	1.0050	1.0049	1.0048	1.0048	1.0047	1.0046	1.0046	1.0045	1.0044	1.0043
9	1.0043	1.0042	1.0041	1.0041	1.0040	1.0039	1.0038	1.0038	1.0037	1.0036
10	1.0036	1.0035	1.0034	1.0033	1.0033	1.0032	1.0031	1.0031	1.0030	1.0029
11	1.0029	1.0028	1.0027	1.0026	1.0026	1.0025	1.0024	1.0024	1.0023	1.0022
12	1.0021	1.0021	1.0020	1.0019	1.0019	1.0018	1.0017	1.0016	1.0016	1.0015
13	1.0014	1.0014	1.0013	1.0012	1.0011	1.0011	1.0010	1.0009	1.0009	1.0008
14	1.0007	1.0006	1.0006	1.0005	1.0004	1.0004	1.0003	1.0002	1.0001	1.0001
15	1.0000	0.9999	0.9999	0.9998	0.9997	0.9996	0.9996	0.9995	0.9994	0.9994
16	0.9993	0.9992	0.9991	0.9991	0.9990	0.9989	0.9989	0.9988	0.9987	0.9986
17	0.9986	0.9985	0.9984	0.9984	0.9983	0.9982	0.9981	0.9981	0.9980	0.9979
18	0.9979	0.9978	0.9977	0.9976	0.9976	0.9975	0.9974	0.9974	0.9973	0.9972

Volume correction factors to 15 °C for use with all grades of lubricating oils (SAE)										
Temperature °C	0	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90
19	0.9971	0.9971	0.9970	0.9969	0.9969	0.9968	0.9967	0.9966	0.9966	0.9965
20	0.9964	0.9964	0.9963	0.9962	0.9961	0.9961	0.9960	0.9959	0.9959	0.9958
21	0.9957	0.9956	0.9956	0.9955	0.9954	0.9954	0.9953	0.9952	0.9951	0.9951
22	0.9950	0.9949	0.9949	0.9948	0.9947	0.9946	0.9946	0.9945	0.9944	0.9944
23	0.9943	0.9942	0.9941	0.9941	0.9940	0.9939	0.9939	0.9938	0.9937	0.9936
24	0.9936	0.9935	0.9934	0.9934	0.9933	0.9932	0.9931	0.9931	0.9930	0.9929
25	0.9929	0.9928	0.9927	0.9926	0.9926	0.9925	0.9924	0.9923	0.9923	0.9922
26	0.9921	0.9921	0.9920	0.9919	0.9918	0.9918	0.9917	0.9916	0.9916	0.9915
27	0.9914	0.9913	0.9913	0.9912	0.9911	0.9911	0.9910	0.9909	0.9908	0.9908
28	0.9907	0.9906	0.9906	0.9905	0.9904	0.9903	0.9903	0.9902	0.9901	0.9901
29	0.9900	0.9899	0.9898	0.9898	0.9897	0.9896	0.9896	0.9895	0.9894	0.9893
30	0.9893	0.9892	0.9891	0.9891	0.9890	0.9889	0.9888	0.9888	0.9887	0.9886
31	0.9885	0.9885	0.9884	0.9883	0.9883	0.9882	0.9881	0.9880	0.9880	0.9879
32	0.9878	0.9878	0.9877	0.9876	0.9875	0.9875	0.9874	0.9873	0.9873	0.9872
33	0.9871	0.9870	0.9870	0.9869	0.9868	0.9868	0.9867	0.9866	0.9865	0.9865
34	0.9864	0.9863	0.9862	0.9862	0.9861	0.9860	0.9860	0.9859	0.9858	0.9857
35	0.9857	0.9856	0.9855	0.9855	0.9854	0.9853	0.9852	0.9852	0.9851	0.9850
36	0.9850	0.9849	0.9848	0.9847	0.9847	0.9846	0.9845	0.9844	0.9844	0.9843
37	0.9842	0.9842	0.9841	0.9840	0.9839	0.9839	0.9838	0.9837	0.9837	0.9836
38	0.9835	0.9834	0.9834	0.9833	0.9832	0.9832	0.9831	0.9830	0.9829	0.9829
39	0.9828	0.9827	0.9826	0.9826	0.9825	0.9824	0.9824	0.9823	0.9822	0.9821

Volume correction factors to 15 °C for use with all grades of lubricating oils (SAE)										
Temperature °C	0	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90
40	0.9821									

Density at 15 °C = 880 kg/m³

Values calculated as per API Standard 2540, Chapter 11.1, Volume X (1993)

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