

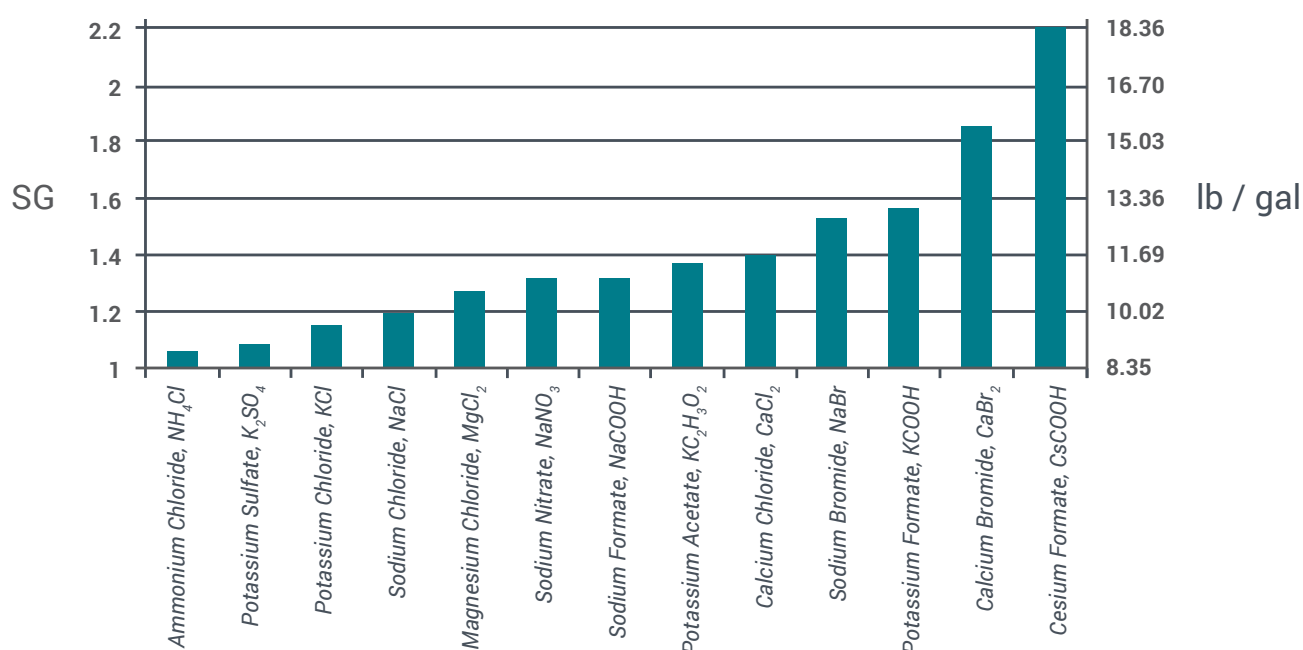


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Maximum Densities



	MAX DENSITY, SG	MAX DENSITY, LB / GAL
Ammonium Chloride, NH_4Cl	1.067	8.90
Potassium Sulfate, K_2SO_4	1.083	9.03
Potassium Chloride, KCl	1.162	9.69
Sodium Chloride, NaCl	1.197	9.98
Magnesium Chloride, $MgCl_2$	1.276	10.64
Sodium Nitrate, $NaNO_3$	1.320	11.01
Sodium Formate, NaCOOH	1.330	11.06
Potassium Acetate, $KC_2H_3O_2$	1.393	11.60
Calcium Chloride, $CaCl_2$	1.396	11.64
Sodium Bromide, NaBr	1.530	12.70
Potassium Formate, KCOOH	1.580	13.18
Calcium Bromide, $CaBr_2$	1.830	15.25
Cesium Formate, CsCOOH	2.200	18.36

Sodium Chloride, NaCl

WEIGHT (%)	DENSITY (KG / L)	DENSITY (LB / GAL)	Cl ⁻ (MG / L)	Na ⁺ (MG / L)	NaCl (KG / M ³)	WATER (M ³)	CRYST. PT. (°F)	WATER ACTIVITY (AW)
1	1.005	8.38	6,127	3,973	10.1	0.995	30.9	0.994
2	1.013	8.44	12,254	7,946	20.2	0.992	29.9	0.989
3	1.020	8.50	18,563	12,037	30.6	0.989	28.8	0.983
4	1.027	8.56	24,932	16,168	41.1	0.986	27.7	0.977
5	1.034	8.62	31,363	20,337	51.7	0.982	26.5	0.970
6	1.041	8.68	37,914	24,586	62.5	0.979	25.3	0.964
7	1.049	8.75	44,526	28,874	73.4	0.975	24.1	0.957
8	1.056	8.81	51,260	33,240	84.5	0.971	22.9	0.950
9	1.063	8.87	58,054	37,646	95.7	0.968	21.5	0.943
10	1.071	8.93	64,970	42,130	107.1	0.964	20.2	0.935
11	1.078	8.99	71,946	46,654	118.6	0.960	18.8	0.927
12	1.086	9.05	79,044	51,256	130.3	0.955	17.3	0.919
13	1.093	9.12	86,202	55,898	142.1	0.951	15.7	0.911
14	1.101	9.18	93,481	60,619	154.1	0.947	14.1	0.902
15	1.109	9.24	100,882	65,418	166.3	0.942	12.4	0.892
16	1.116	9.31	108,344	70,256	178.6	0.938	10.6	0.883
17	1.124	9.37	115,927	75,173	191.1	0.933	8.7	0.872
18	1.132	9.44	123,570	80,130	203.7	0.928	6.7	0.862
19	1.140	9.51	131,396	85,204	216.6	0.923	4.6	0.851
20	1.148	9.57	139,282	90,318	229.6	0.918	2.4	0.839
21	1.156	9.64	147,229	95,471	242.7	0.913	0.0	0.827
22	1.164	9.71	155,357	100,743	256.1	0.908	-2.5	0.815
23	1.172	9.78	163,547	106,053	269.6	0.903	-5.2	0.802
24	1.180	9.84	171,858	111,442	283.3	0.897	1.4	0.788
25	1.189	9.91	180,290	116,910	297.2	0.892	14.7	0.774
26	1.197	9.98	188,843	122,457	311.3	0.886	27.9	0.759

Properties based on 20°C and 100% purity.

Potassium Chloride, KCl

WEIGHT (%)	DENSITY (KG / L)	DENSITY (LB / GAL)	Cl ⁻ (MG / L)	K ⁺ (MG / L)	KCl (KG / M ³)	WATER (M ³)	CRYST. PT. (°F)	WATER ACTIVITY (AW)
1	1.005	8.38	4,756	5,244	10.0	0.995	31.2	0.996
2	1.011	8.43	9,606	10,594	20.2	0.991	30.3	0.991
3	1.017	8.49	14,504	15,996	30.5	0.987	29.5	0.987
4	1.024	8.54	19,498	21,502	41.0	0.983	28.7	0.982
5	1.030	8.59	24,491	27,009	51.5	0.979	27.8	0.977
6	1.037	8.65	29,579	32,621	62.2	0.975	27.0	0.973
7	1.043	8.70	34,715	38,285	73.0	0.970	26.1	0.968
8	1.050	8.76	39,947	44,053	84.0	0.966	25.2	0.963
9	1.057	8.81	45,225	49,875	95.1	0.962	24.3	0.958
10	1.063	8.87	50,551	55,749	106.3	0.957	23.4	0.953
11	1.070	8.92	55,973	61,727	117.7	0.952	22.4	0.947
12	1.077	8.98	61,442	67,758	129.2	0.948	21.4	0.942
13	1.084	9.04	67,006	73,894	140.9	0.943	20.4	0.936
14	1.091	9.09	72,617	80,083	152.7	0.938	20.0	0.930
15	1.097	9.15	78,276	86,324	164.6	0.933	18.5	0.925
16	1.104	9.21	84,030	92,670	176.7	0.928	17.0	0.918
17	1.111	9.27	89,832	99,068	188.9	0.922	16.0	0.912
18	1.119	9.33	95,729	105,571	201.3	0.917	15.0	0.906
19	1.126	9.39	101,721	112,179	213.9	0.912	14.0	0.899
20	1.133	9.45	107,760	118,840	226.6	0.906	13.0	0.892
22	1.147	9.57	120,030	132,370	252.4	0.895	34.0	0.878
24	1.162	9.69	132,632	146,268	278.9	0.883	59.0	0.862

Properties based on 20°C and 100% purity.

Calcium Chloride, CaCl_2

WEIGHT (%)	DENSITY (KG / L)	DENSITY (LB / GAL)	Cl^- (MG / L)	Ca^{2+} (MG / L)	CaCl_2 (KG / M ³)	WATER (M ³)	CRYST. PT. (°F)	WATER ACTIVITY (AW)
1	1.007	8.39	6,453	3,647	10.1	0.996	31.2	0.994
2	1.015	8.46	12,969	7,331	20.3	0.995	30.4	0.989
3	1.023	8.53	19,613	11,087	30.7	0.993	29.6	0.985
4	1.032	8.60	26,385	14,915	41.3	0.990	28.7	0.980
5	1.040	8.67	33,221	18,779	52.0	0.988	27.8	0.975
6	1.049	8.75	40,185	22,715	62.9	0.986	26.7	0.971
7	1.057	8.82	47,277	26,723	74.0	0.983	25.6	0.965
8	1.066	8.89	54,496	30,804	85.3	0.981	24.3	0.960
9	1.075	8.96	61,779	34,921	96.7	0.978	22.9	0.954
10	1.084	9.04	69,190	39,110	108.3	0.975	21.5	0.948
11	1.092	9.11	76,793	43,407	120.2	0.972	19.9	0.940
12	1.101	9.19	84,459	47,741	132.2	0.969	18.1	0.932
13	1.111	9.26	92,253	52,147	144.4	0.966	16.3	0.924
14	1.120	9.34	100,175	56,625	156.8	0.963	14.3	0.914
15	1.129	9.42	108,225	61,175	169.4	0.960	12.2	0.904
16	1.139	9.50	116,403	65,797	182.2	0.957	9.9	0.892
17	1.148	9.58	124,708	70,492	195.2	0.953	7.4	0.880
18	1.158	9.66	133,141	75,259	208.4	0.950	4.8	0.867
19	1.168	9.74	141,766	80,134	221.9	0.946	1.9	0.852
20	1.178	9.82	150,455	85,045	235.5	0.942	-0.9	0.837
22	1.198	9.99	168,343	95,157	263.5	0.934	-7.1	0.804
24	1.218	10.16	186,743	105,557	292.3	0.926	-13.5	0.767
26	1.239	10.33	205,781	116,319	322.1	0.917	-21.5	0.726
28	1.260	10.51	225,395	127,405	352.8	0.907	-31.2	0.683
30	1.282	10.69	245,647	138,853	384.5	0.897	-47.7	0.637
32	1.304	10.87	266,474	150,626	417.1	0.886	-19.5	0.590
34	1.326	11.06	288,004	162,796	450.8	0.875	4.3	0.541
36	1.349	11.25	310,237	175,363	485.6	0.863	24.1	0.492
38	1.372	11.44	333,109	188,291	521.4	0.851	42.1	0.443
40	1.396	11.64	356,683	201,617	558.3	0.837	55.9	0.395

Properties based on 20°C and 100% purity.

Magnesium Chloride, MgCl_2

WEIGHT (%)	DENSITY (KG / L)	DENSITY (LB / GAL)	Cl^- (MG / L)	Mg^{2+} (MG / L)	MgCl_2 (KG / M ³)	WATER (M ³)	CRYST. PT. (°F)	WATER ACTIVITY (AW)
1	1.006	8.39	7,492	2,568	10.1	0.996	31.1	0.995
2	1.014	8.46	15,106	5,178	20.3	0.994	30.1	0.990
3	1.023	8.52	22,842	7,830	30.7	0.992	29	0.984
4	1.031	8.59	30,703	10,524	41.2	0.990	27.9	0.978
5	1.039	8.66	38,696	13,264	52.0	0.987	26.6	0.972
6	1.048	8.74	46,814	16,047	62.9	0.985	24.3	0.964
7	1.056	8.81	55,060	18,873	73.9	0.983	22.3	0.957
8	1.065	8.88	63,444	21,747	85.2	0.980	21.5	0.948
9	1.074	8.95	71,957	24,665	96.6	0.977	19.6	0.939
10	1.083	9.02	80,608	27,631	108.2	0.974	18	0.929
12	1.101	9.17	98,329	33,705	132.0	0.969	14.4	0.906
14	1.119	9.33	116,635	39,980	156.6	0.962	5.8	0.879
16	1.137	9.48	135,477	46,439	181.9	0.955	-1.9	0.848
18	1.155	9.63	154,838	53,075	207.9	0.947	-13	0.812
20	1.174	9.79	174,856	59,937	234.8	0.939	-27.8	0.772
22	1.194	9.95	195,553	67,031	262.6	0.931	-18.5	0.727
24	1.214	10.12	216,940	74,362	291.3	0.923	-11.8	0.677
26	1.235	10.29	239,006	81,926	320.9	0.914	-5	0.624
28	1.256	10.47	261,748	89,722	351.5	0.904	1.3	0.567
30	1.276	10.64	285,091	97,723	382.8	0.893	2.4	0.507

Properties based on 20°C and 100% purity.

Potassium Sulfate, K₂SO₄

WEIGHT (%)	DENSITY (KG / L)	DENSITY (LB / GAL)	K ⁺ (MG / L)	SO ₄ ²⁻ (MG / L)	K ₂ SO ₄ (KG / M ³)	WATER (M ³)	CRYST. PT. (°F)
0.5	1.004	8.37	2,244	2,756	5.0	0.997	31.8
1.0	1.008	8.41	4,532	5,568	10.1	0.996	31.5
1.5	1.012	8.44	6,821	8,379	15.2	0.995	31.9
2.0	1.016	8.47	9,110	11,190	20.3	0.994	31.1
2.5	1.020	8.51	11,443	14,057	25.5	0.993	31.9
3.0	1.024	8.54	13,776	16,924	30.7	0.992	31.9
3.5	1.028	8.58	16,110	19,790	35.9	0.991	31.8
4.0	1.032	8.61	18,488	22,712	41.2	0.989	31.8
4.5	1.037	8.64	20,911	25,689	46.6	0.988	30.1
5.0	1.041	8.68	23,290	28,610	51.9	0.987	29.9
5.5	1.045	8.71	25,758	31,642	57.4	0.986	—
6.0	1.049	8.75	28,181	34,619	62.8	0.984	—
6.5	1.053	8.78	30,649	37,651	68.3	0.983	—
7.0	1.057	8.82	33,162	40,738	73.9	0.981	—
7.5	1.061	8.85	35,675	43,825	79.5	0.980	—
8.0	1.066	8.89	38,188	46,912	85.1	0.979	—
8.5	1.070	8.92	40,746	50,054	90.8	0.977	—
9.0	1.074	8.96	43,304	53,196	96.5	0.976	—
9.5	1.078	8.99	45,907	56,393	102.3	0.974	—
10.0	1.083	9.03	48,509	59,591	108.1	0.973	—

Properties based on 20°C and 100% purity.

Sodium Formate, NaCOOH

WEIGHT (%)	DENSITY (20°C) (KG / L)	DENSITY (LB / GAL)	HCOO ⁻ (MG / L)	Na ⁺ (MG / L)	NaCOOH (KG / M ³)	WATER (M ³)	CRYST. PT. (°F)	WATER ACTIVITY (AW)
1	1.00	8.37	6,653	3,397	10.1	0.997	32	0.992
2	1.01	8.42	13,371	6,829	20.2	0.992	30	0.986
3	1.01	8.42	20,169	10,301	30.5	0.987	29	0.979
4	1.02	8.51	27,047	13,813	40.9	0.982	28	0.972
5	1.03	8.56	34,013	17,367	51.4	0.978	27	0.965
6	1.03	8.61	41,054	20,966	62.0	0.973	27	0.958
7	1.04	8.66	48,191	24,609	72.8	0.969	26	0.951
8	1.05	8.72	55,413	28,297	83.7	0.964	25	0.946
9	1.05	8.77	62,720	32,030	94.8	0.959	24	0.938
10	1.06	8.82	70,022	35,808	105.8	0.956	23	0.932
11	1.07	8.88	77,609	39,631	117.2	0.950	19	0.925
12	1.07	8.93	85,080	43,600	128.7	0.945	19	0.919
13	1.08	8.99	92,847	47,413	140.3	0.940	18	0.130
14	1.09	9.04	100,598	51,372	152.0	0.935	17	0.906
15	1.09	9.10	108,435	55,375	163.8	0.930	16	0.900
16	1.10	9.15	116,366	59,424	175.8	0.925	14	0.893
17	1.11	9.21	124,391	63,519	187.9	0.919	12	0.887
18	1.11	9.26	132,500	67,660	200.2	0.914	11	0.880
19	1.12	9.32	140,712	71,848	212.6	0.908	10	0.873
20	1.13	9.37	149,996	76,084	226.1	0.902	4	0.966
21	1.13	9.43	157,381	80,369	237.8	0.896	2	0.859
22	1.14	9.49	165,876	84,704	250.6	0.890	-4	0.852
23	1.15	9.55	164,468	89,092	253.6	0.884	-2	0.844
24	1.15	9.60	180,158	93,532	273.7	0.878	0	0.836
25	1.16	9.66	191,963	98,027	290.0	0.872	0	0.828
26	1.17	9.72	200,881	102,579	303.5	0.865	1	0.819
27	1.17	9.78	209,902	107,188	317.1	0.859	2	0.810
28	1.18	9.84	219,184	112,126	331.3	0.852	4	0.800
29	1.19	9.91	228,304	116,586	344.9	0.846	14	0.790
30	1.20	9.97	237,704	121,376	359.1	0.839	18	0.780
31	1.20	10.03	247,192	126,228	373.4	0.833	18	0.770
32	1.21	10.10	256,817	131,143	388.0	0.827	19	0.759
33	1.22	10.17	266,561	136,119	402.7	0.819	25	0.748
34	1.23	10.23	276,423	141,157	417.6	0.8121	33	0.736
35	1.24	10.30	286,407	146,253	432.7	0.806	37	0.725
36	1.24	10.36	296,493	151,407	447.9	0.7977	40	0.713
37	1.25	10.43	306,687	156,613	463.3	0.7903	42	0.702
38	1.26	10.50	316,982	161,868	478.9	0.7827	48	0.691
39	1.27	10.56	327,355	167,165	494.5	0.7749	49	0.680
40	1.28	10.63	337,793	172,497	510.3	0.7668	51	0.670
41	1.28	10.69	348,285	177,855	526.1	0.7585	54	0.660
42	1.29	10.75	358,813	183,227	542.0	0.7499	54	0.651
43	1.30	10.81	369,329	188,601	557.9	0.7409	55	0.643
44	1.30	10.86	379,828	193,962	573.8	0.7316	57	0.636
45	1.31	10.91	390,287	199,293	589.6	0.7219	59	0.630
46	1.32	10.96	400,616	204,574	605.2	0.7117	–	0.626
47	1.32	11.00	410,808	209,782	620.6	0.7011	–	0.622
48	1.32	11.03	420,819	214,891	635.7	6899	–	0.619
49	1.33	11.06	430,576	219,874	650.5	0.6782	–	0.617

Potassium Acetate, $KC_2H_3O_2$

WEIGHT (%)	DENSITY (KG / L)	DENSITY (LB / GAL)	K ⁺ (MG / L)	C ₂ H ₃ O ₂ ⁻ (MG / L)	KC ₂ H ₃ O ₂ (KG / M ³)	WATER (M ³)	CRYST. PT. (°F)	WATER ACTIVITY (AW)
2	1.006	8.380	8,101	12,233	20.3	20.3	0.985	0.99
4	1.016	8.465	16,148	24,384	40.5	40.5	0.975	0.98
6	1.026	8.550	24,385	36,822	61.2	61.2	0.964	0.97
8	1.037	8.636	32,811	49,545	82.4	82.4	0.953	0.96
10	1.047	8.723	41,426	62,554	104.0	104.0	0.942	0.95
12	1.058	8.810	50,230	75,848	126.1	126.1	0.930	0.94
14	1.068	8.897	59,224	89,429	148.7	148.7	0.918	0.93
16	1.079	8.986	68,407	103,295	171.7	171.7	0.905	0.92
18	1.089	9.075	77,779	117,448	195.2	195.2	0.892	0.91
20	1.100	9.164	87,340	131,886	219.2	219.2	0.879	0.90
22	1.111	9.255	97,091	146,610	243.7	243.7	0.865	0.89
24	1.122	9.345	107,032	161,620	268.7	268.7	0.851	0.87
26	1.133	9.437	117,161	176,915	294.1	294.1	0.837	0.86
28	1.144	9.529	127,480	192,497	320.0	320.0	0.822	0.84
30	1.155	9.622	137,988	208,364	346.4	346.4	0.806	0.82
32	1.166	9.715	148,685	224,518	373.2	373.2	0.791	0.80
34	1.178	9.809	159,572	240,957	400.5	400.5	0.775	0.78
36	1.189	9.903	170,648	257,682	428.3	428.3	0.758	0.75
38	1.200	9.998	181,913	274,692	456.6	456.6	0.741	0.73
40	1.212	10.094	193,368	291,989	485.4	485.4	0.724	0.70
42	1.223	10.190	205,012	309,572	514.6	514.6	0.706	0.67
44	1.235	10.287	216,845	327,440	544.3	544.3	0.688	0.64
46	1.247	10.385	228,867	345,594	574.5	574.5	0.670	0.61
48	1.258	10.483	241,079	364,034	605.1	605.1	0.651	0.58
50	1.270	10.581	253,480	382,760	636.2	636.2	0.632	0.55
52	1.282	10.681	266,070	401,772	667.8	667.8	0.612	0.51
54	1.294	10.781	278,850	421,069	699.9	699.9	0.592	0.48
56	1.306	10.881	291,819	440,653	732.5	732.5	0.572	0.45
58	1.318	10.982	304,977	460,522	765.5	765.5	0.551	0.41
60	1.331	11.084	318,325	480,677	799.0	799.0	0.530	0.38
62	1.343	11.186	331,862	501,118	833.0	833.0	0.509	0.35
64	1.355	11.289	345,588	521,845	867.4	867.4	0.487	0.32
66	1.368	11.393	359,504	542,858	902.4	902.4	0.464	0.30
68	1.380	11.497	373,608	564,156	937.8	937.8	0.441	0.27
70	1.393	11.602	387,903	585,741	973.6	973.6	0.418	0.25

Properties measured at 75°F (23.89°C). Calculations based on 100% purity.

Potassium Formate, KCOOH

WEIGHT (%)	DENSITY (20°C) (KG / L)	DENSITY (LB / GAL)	HCOO ⁻ (MG / L)	K ⁺ (MG / L)	KCOOH (KG / M ³)	WATER (M ³)	CRYST. PT. (°F)	WATER ACTIVITY (AW)
1	1.01	8.38	5,384	4,676	10.1	0.998	31	0.994
2	1.01	8.43	10,838	9,412	20.3	0.994	30	0.991
3	1.02	8.48	16,351	14,199	30.6	0.990	29	0.987
4	1.02	8.53	21,927	19,043	41.0	0.985	29	0.984
5	1.03	8.58	27,569	23,941	51.5	0.980	29	0.980
6	1.04	8.63	33,269	28,891	62.2	0.976	28	0.975
7	1.04	8.68	39,027	33,893	72.9	0.971	28	0.971
8	1.05	8.73	44,845	38,945	83.8	0.966	27	0.968
9	1.05	8.77	50,727	44,053	94.8	0.960	27	0.961
10	1.06	8.82	56,668	49,212	105.9	0.955	26	0.956
11	1.06	8.87	62,678	54,432	117.1	0.949	26	0.951
12	1.07	8.92	68,747	59,703	128.5	0.944	26	0.946
13	1.08	8.97	74,881	65,029	139.9	0.938	25	0.940
14	1.08	9.01	81,079	70,411	151.5	0.932	25	0.934
15	1.09	9.06	87,351	75,859	163.2	0.929	25	0.928
16	1.09	9.11	93,688	81,362	175.1	0.921	24	0.922
17	1.10	9.16	100,100	86,930	187.0	0.919	24	0.915
18	1.11	9.22	106,581	92,559	199.1	0.909	23	0.908
19	1.11	9.27	113,143	98,257	211.4	0.903	22	0.901
20	1.12	9.32	119,780	104,020	223.8	0.897	21	0.894
21	1.13	9.38	126,491	109,849	236.3	0.891	20	0.886
22	1.13	9.43	133,288	115,752	249.0	0.885	19	0.878
23	1.14	9.49	140,160	121,720	261.9	0.878	18	0.870
24	1.14	9.54	147,118	127,762	274.9	0.872	17	0.862
25	1.15	9.60	154,161	133,879	288.0	0.866	16	0.854
26	1.16	9.67	161,290	140,070	301.4	0.859	15	0.845
27	1.17	9.71	168,505	146,335	314.8	0.853	14	0.836
28	1.17	9.77	175,810	152,680	328.5	0.846	13	0.827
29	1.18	9.83	183,202	159,098	342.3	0.840	12	0.818
30	1.19	9.88	190,689	165,601	356.3	0.833	10	0.809
31	1.19	9.95	198,262	172,178	370.4	0.826	8	0.799
32	1.20	10.02	205,927	178,833	384.8	0.819	7	0.789
33	1.21	10.08	213,682	185,568	399.3	0.812	4	0.780
34	1.22	10.14	221,533	192,387	413.9	0.805	0	0.770
35	1.22	10.20	229,476	199,284	428.8	0.798	-4	0.760
36	1.23	10.27	237,509	206,261	443.8	0.790	-8	0.750
37	1.24	10.33	245,639	213,321	459.0	0.783	-12	0.740
38	1.25	10.40	253,860	220,460	474.3	0.775	-16	0.730
39	1.26	10.46	262,172	227,678	489.9	0.768	-17	0.719
40	1.26	10.53	270,580	234,980	505.6	0.760	-23	0.709

Continued on next page.

Potassium Formate, KCOOH (continued)

WEIGHT (%)	DENSITY (20°C) (KG / L)	DENSITY (LB / GAL)	HCOO ⁻ (MG / L)	K ⁺ (MG / L)	KCOOH (KG / M ³)	WATER (M ³)	CRYST. PT. (°F)	WATER ACTIVITY (AW)
41	1.27	10.59	279,079	242,361	521.4	0.752	-29	0.699
42	1.28	10.66	287,674	249,826	537.5	0.744	-33	0.689
43	1.29	10.73	296,361	257,369	553.7	0.735	-38	0.678
44	1.30	10.79	305,138	264,992	570.1	0.727	-44	0.668
45	1.30	10.86	314,012	272,698	586.7	0.718	-47	0.658
46	1.31	10.93	322,977	280,483	603.5	0.710	-51	0.648
47	1.32	11.00	332,032	288,348	620.4	0.701	-54	0.638
48	1.33	11.06	341,184	296,296	637.5	0.692	-60	0.627
49	1.34	11.13	350,433	304,327	654.8	0.683	-62	0.617
50	1.34	11.20	359,772	312,438	672.2	0.674	-65	0.607
51	1.35	11.27	369,208	320,632	689.8	0.664	-70	0.597
52	1.36	11.34	378,740	328,910	707.7	0.654	-71	0.587
53	1.37	11.41	388,368	337,272	725.6	0.645	-74	0.576
54	1.38	11.47	398,098	345,722	743.8	0.635	-75	0.566
55	1.39	11.54	407,930	354,260	762.2	0.625	-78	0.556
56	1.39	11.61	417,869	362,891	780.8	0.615	-80	0.546
57	1.40	11.68	427,920	371,620	799.5	0.604	-77	0.535
58	1.41	11.76	438,078	380,442	818.5	0.594	-75	0.526
59	1.42	11.83	448,349	389,361	837.7	0.583	-72	0.514
60	1.43	11.90	458,748	398,392	857.1	0.573	-71	0.504
61	1.44	11.97	469,270	407,530	876.8	0.562	-68	0.493
62	1.45	12.05	479,926	416,784	896.7	0.551	-65	0.482
63	1.45	12.12	490,722	426,158	916.9	0.540	-60	0.471
64	1.46	12.20	501,661	435,659	937.3	0.528	-54	0.459
65	1.47	12.28	512,761	445,299	958.1	0.517	-47	0.447
66	1.48	12.36	524,028	455,082	979.1	0.505	-45	0.436
67	1.49	12.44	535,470	465,020	1,000.5	0.494	-38	0.423
68	1.50	12.52	547,100	475,120	1,022.2	0.482	-34	0.409
69	1.51	12.61	558,934	485,396	1,044.3	0.470	-27	0.396
70	1.52	12.70	570,981	495,859	1,066.8	0.458	-20	0.381
71	1.53	12.79	583,264	506,526	1,089.8	0.446	-13	0.366
72	1.55	12.88	595,794	517,406	1,113.2	0.434	-8	0.350
73	1.56	12.98	608,585	528,515	1,137.1	0.421	-3	0.333
74	1.57	13.08	632,370	549,170	1,181.5	0.409	2	0.314
75	1.58	13.18	635,056	551,504	1,186.6	0.398	28	0.294

Calcium Bromide, CaBr₂

WEIGHT (%)	DENSITY (20°C) (KG / L)	DENSITY (LB / GAL)	Br ⁻ (MG / L)	Ca ²⁺ (MG / L)	95% CaBr ₂ (KG / M ³)	WATER (M ³)
33	1.32	11.00	326,771	81,950	408.7	0.889
33	1.33	11.10	337,822	84,722	422.5	0.887
34	1.34	11.20	348,656	87,439	436.1	0.884
35	1.36	11.30	362,741	90,971	453.7	0.878
36	1.37	11.40	378,126	94,830	473.0	0.869
37	1.38	11.50	389,178	97,601	486.8	0.867
38	1.39	11.60	400,229	100,373	500.6	0.864
38	1.40	11.70	409,330	102,655	512.0	0.863
40	1.42	11.80	429,699	107,764	537.5	0.849
40	1.43	11.90	439,017	110,100	549.1	0.849
41	1.44	12.00	448,551	112,491	561.0	0.848
42	1.45	12.10	463,936	116,350	580.3	0.840
44	1.48	12.30	489,289	122,708	612.0	0.831
44	1.49	12.40	499,040	125,153	624.2	0.830
45	1.50	12.50	515,075	129,175	644.3	0.821
46	1.51	12.60	525,260	131,729	657.0	0.819
47	1.52	12.70	541,728	135,859	677.6	0.810
47	1.54	12.80	552,129	138,468	690.6	0.808
49	1.55	12.90	577,482	144,826	722.3	0.797
49	1.56	13.00	579,433	145,315	724.7	0.796
49	1.57	13.10	590,050	147,978	738.0	0.794
50	1.58	13.20	600,885	150,695	751.6	0.791
50	1.60	13.30	611,936	153,467	765.4	0.789
52	1.61	13.40	629,272	157,814	787.1	0.778
52	1.62	13.50	640,540	160,640	801.2	0.775
53	1.63	13.60	651,807	163,466	815.3	0.772
54	1.64	13.70	669,576	167,922	837.5	0.761
54	1.66	13.80	681,061	170,802	851.9	0.758
55	1.67	13.90	692,762	173,737	866.5	0.755
55	1.68	14.00	704,463	176,671	881.1	0.751
56	1.69	14.10	716,165	179,606	895.8	0.748
56	1.70	14.20	727,866	182,540	910.4	0.744
57	1.72	14.30	740,001	185,584	925.6	0.740
58	1.73	14.40	754,403	189,196	943.6	0.737
59	1.75	14.55	767,030	192,362	959.4	0.734
60	1.78	14.80	779,657	195,529	975.2	0.730
61	1.80	15.00	792,284	198,696	991.0	0.727

Sodium Bromide, NaBr

WEIGHT (%)	DENSITY (20°C) (KG / L)	DENSITY (LB / GAL)	Br ⁻ (MG / L)	Na ⁺ (MG / L)	95% NaBr (KG / M ³)	WATER (M ³)
2	1.02	8.5	16,604	5,109	21.7	0.996
5	1.04	8.7	41,948	12,906	54.9	0.989
6	1.05	8.8	51,050	15,707	66.8	0.985
7	1.06	8.8	60,039	18,472	78.5	0.982
8	1.07	8.9	69,149	21,275	90.4	0.979
9	1.08	9.0	78,389	24,118	102.5	0.975
10	1.09	9.1	87,763	27,002	114.8	0.972
11	1.10	9.1	97,279	29,930	127.2	0.969
12	1.11	9.2	106,943	32,903	139.8	0.965
13	1.11	9.3	116,763	35,925	152.7	0.962
14	1.12	9.4	126,743	38,995	165.7	0.958
15	1.13	9.4	136,891	42,118	179.0	0.954
16	1.14	9.5	147,214	45,293	192.5	0.951
17	1.15	9.6	157,306	48,398	205.7	0.946
18	1.16	9.7	168,408	51,814	220.2	0.943
19	1.17	9.8	179,293	55,164	234.5	0.939
20	1.18	9.9	190,379	58,574	249.0	0.935
21	1.19	10.0	201,672	62,049	263.7	0.930
22	1.21	10.0	213,179	65,589	278.8	0.926
23	1.22	10.1	224,906	69,197	294.1	0.922
24	1.23	10.2	236,860	72,875	309.7	0.917
25	1.24	10.3	249,047	76,625	325.7	0.913
26	1.25	10.4	261,474	80,448	341.9	0.908
27	1.26	10.5	274,148	84,348	358.5	0.903
28	1.27	10.6	287,074	88,325	375.4	0.899
29	1.29	10.7	300,261	92,382	392.6	0.894
30	1.30	10.8	313,713	96,521	410.2	0.889
31	1.31	10.9	327,438	100,744	428.2	0.884
32	1.33	11.1	341,443	105,052	446.5	0.878
33	1.34	11.2	355,733	109,449	465.2	0.873
34	1.35	11.3	370,316	113,936	484.3	0.868
35	1.37	11.4	385,197	118,514	503.7	0.862
36	1.38	11.5	399,818	123,013	522.8	0.857
37	1.40	11.6	415,883	127,955	543.8	0.851
38	1.41	11.8	431,701	132,822	564.5	0.846
39	1.43	11.9	447,843	137,789	585.6	0.840
40	1.44	12.0	463,177	142,507	605.7	0.834
41	1.46	12.2	481,130	148,030	629.2	0.828
42	1.48	12.3	499,227	153,598	652.8	0.823
43	1.49	12.4	515,797	158,696	674.5	0.816
44	1.51	12.6	533,663	164,193	697.9	0.810
45	1.53	12.7	550,569	169,395	720.0	0.804

Ammonium Chloride, NH₄Cl

WEIGHT (%)	DENSITY (KG / L)	DENSITY (LB / GAL)	Cl ⁻ (MG / L)	NH ₄ ⁺ (MG / L)	NH ₄ Cl (KG / M ³)	WATER (M ³)	CRYST. PT. (°F)
1	1.001	8.35	6,066	3,934	10.0	0.991	30.9
2	1.005	8.38	12,193	7,907	20.1	0.984	29.7
3	1.008	8.40	18,320	11,880	30.2	0.977	28.6
4	1.011	8.43	24,508	15,892	40.4	0.970	27.4
5	1.014	8.46	30,756	19,944	50.7	0.963	26.2
6	1.017	8.48	37,004	23,996	61.0	0.956	24.9
7	1.020	8.51	43,313	28,087	71.4	0.948	23.6
8	1.023	8.53	49,622	32,178	81.8	0.941	22.3
9	1.026	8.55	55,992	36,308	92.3	0.933	20.9
10	1.029	8.58	62,422	40,478	102.9	0.926	19.5
11	1.032	8.60	68,852	44,648	113.5	0.918	18.0
12	1.034	8.63	75,282	48,818	124.1	0.910	16.5
13	1.037	8.65	81,773	53,027	134.8	0.902	15.0
14	1.040	8.67	88,325	57,275	145.6	0.895	—
15	1.043	8.70	94,877	61,523	156.4	0.887	11.0
16	1.046	8.72	101,489	65,811	167.3	0.878	—
17	1.049	8.74	108,101	70,099	178.2	0.870	—
18	1.051	8.77	114,774	74,426	189.2	0.862	—
19	1.054	8.79	121,508	78,792	200.3	0.854	—
20	1.057	8.81	128,180	83,120	211.3	0.845	—
22	1.062	8.86	141,769	91,931	233.7	0.828	—
24	1.067	8.90	155,418	100,782	256.2	0.811	31.0

Properties based on 20°C and 100% purity.

Sodium Nitrate, NaNO_3

WEIGHT (%)	DENSITY (20°C) (KG / L)	DENSITY (LB / GAL)	NaNO_3 (G / L)	NO_3^- (MG / L)	NA^+ (MG / L)	NaNO_4 (KG / M ³)	WATER (M ³)
1	1.01	8.40	9.986	7,285	2,701	10.0	0.995
2	1.01	8.45	20.171	14,715	5,456	20.2	0.992
3	1.02	8.51	30.584	22,312	8,273	30.6	0.988
4	1.03	8.57	40.969	29,888	11,082	41.0	0.984
5	1.03	8.62	51.554	37,609	13,945	51.6	0.981
6	1.04	8.68	62.338	45,477	16,862	62.3	0.977
7	1.05	8.74	73.122	53,344	19,779	73.1	0.973
8	1.06	8.80	84.221	61,440	22,780	84.2	0.969
9	1.06	8.86	95.319	69,536	25,782	95.3	0.965
10	1.07	8.92	106.588	77,758	28,830	106.6	0.961
12	1.08	9.04	129.669	94,595	35,073	129.7	0.952
14	1.10	9.16	153.349	111,870	41,479	153.3	0.943
18	1.13	9.42	202.706	147,877	54,829	202.7	0.924
20	1.14	9.55	228.383	166,609	61,774	228.4	0.914
24	1.18	9.82	281.734	205,529	76,205	281.7	0.893
28	1.21	10.10	338.081	246,635	91,446	338.1	0.87
30	1.23	10.24	367.352	267,989	99,363	367.4	0.858
34	1.26	10.54	428.292	312,446	115,847	428.3	0.832
40	1.32	11.01	526.493	384,084	142,408	526.5	0.791

Cesium Formate, CsCOOH

WEIGHT (%)	DENSITY (20°C) (KG / L)	DENSITY (LB / GAL)	CsCOOH (MOL / L)	CHOO ⁻ (MG / L)	Cs ⁺ (MG / L)	2.20G / CM ³ CsCOOH STOCK BRINE (M ³)	WATER (M ³)
48	1.50	12.50	4.0	180,072	531,622	0.409	0.599
49	1.51	12.62	4.2	187,423	553,325	0.422	0.586
50	1.53	12.75	4.3	193,019	569,845	0.435	0.573
51	1.54	12.89	4.4	198,813	586,950	0.448	0.560
52	1.56	13.02	4.5	204,805	604,640	0.461	0.546
53	1.58	13.17	4.7	210,995	622,915	0.475	0.533
54	1.59	13.30	4.8	217,383	641,774	0.489	0.519
55	1.61	13.43	5.0	223,969	661,218	0.504	0.504
56	1.62	13.56	5.1	230,753	681,247	0.518	0.489
57	1.64	13.73	5.3	237,736	701,860	0.534	0.474
58	1.66	13.90	5.4	244,916	723,059	0.549	0.458
59	1.68	14.06	5.6	252,294	744,842	0.565	0.442
60	1.70	14.20	5.8	259,871	767,210	0.581	0.426
61	1.72	14.40	5.9	267,646	790,163	0.598	0.409
62	1.74	14.56	6.1	272,913	805,713	0.615	0.392
63	1.77	14.75	6.2	280,809	829,024	0.632	0.375
64	1.78	14.90	6.4	288,903	852,921	0.649	0.357
65	1.81	15.10	6.6	297,195	877,402	0.667	0.339
66	1.83	15.27	6.8	305,686	902,468	0.687	0.320
67	1.85	15.48	7.0	314,374	928,119	0.704	0.302
68	1.88	15.67	7.2	323,261	954,354	0.723	0.283
69	1.90	15.90	7.4	332,345	981,174	0.750	0.256
70	1.93	16.10	7.6	341,628	1,008,580	0.769	0.237
71	1.95	16.30	7.80	351,109	1,036,569	0.788	0.217
72	1.98	16.50	8.01	360,788	1,065,144	0.808	0.197
73	2.00	16.70	8.23	370,665	1,094,304	0.830	0.176
74	2.03	16.96	8.46	380,740	1,124,048	0.855	0.150
75	2.06	17.19	8.69	391,013	1,154,377	0.879	0.127
76	2.08	17.40	8.92	401,484	1,185,291	0.902	0.103
77	2.11	17.65	9.16	412,153	1,216,789	0.926	0.078
78	2.14	17.90	9.40	423,021	1,248,873	0.951	0.053
79	2.17	18.13	9.64	434,086	1,281,541	0.977	0.027
80	2.20	18.36	9.89	445,350	1,314,794	1.000	0.000

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