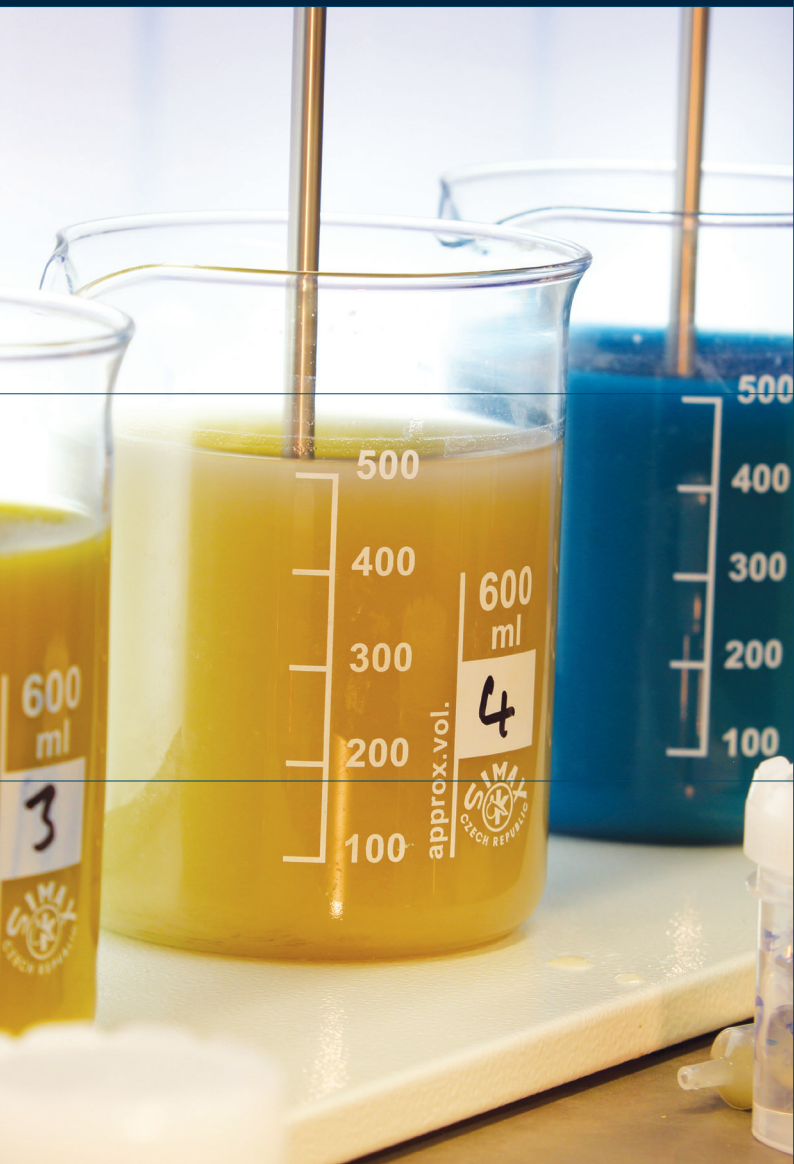




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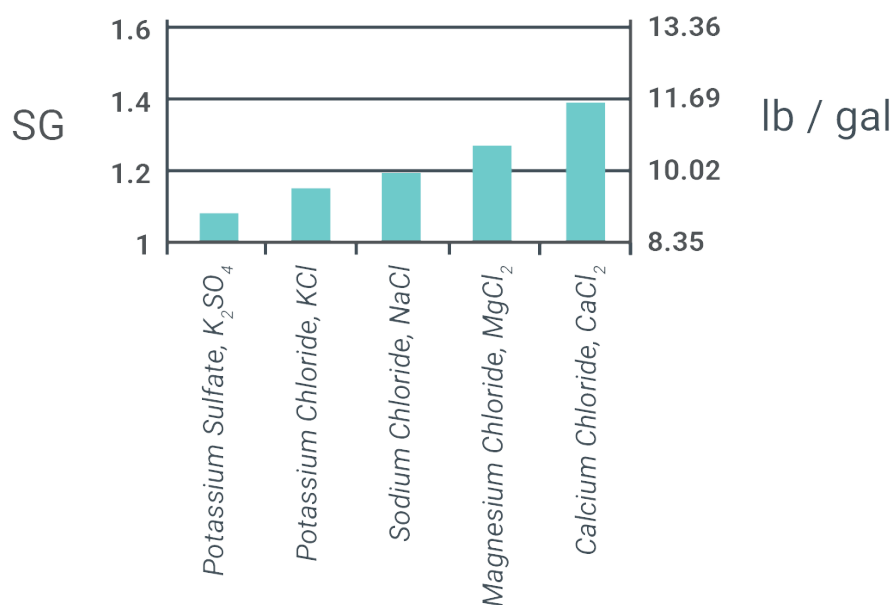
AMC Salt Tables



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Maximum Densities



	MAX DENSITY, SG	MAX DENSITY, LB / GAL
Potassium Sulfate, K ₂ SO 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
Calcium Chloride, CaCl ₂	1.396	11.64

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, CaCl₂

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.

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