Table 1. Sodium Chloride Brine Tables for Brine at 60°F

(1) Salo- meter	(2) Freezing Point Deg. F. ^a	(3) Percent Sodium Chloride by Wt.	(4) Pounds Salt Per Gallon of Water	(5) Pounds per Gallon of Brine		(6) Gallon Water	(7) Specific Gravity	(8) Salo- meter
Degrees						Per Gal.	Glavity	Degrees
U						of Brine		
				NaCl	Water			
0	+32.0	.000	.000	.000	8.328	1.000	1.000	0
2	+31.5	.528	.044	.044	8.318	.999	1.004	2
4	+31.1	1.056	.089	.089	8.297	.996	1.007	4
6	+30.5	1.584	.134	.133	8.287	.995	1.011	6
8	+30.0	2.112	.179	.178	8.275	.993	1.015	8
0	+29.3	2.640	.226	.224	8.262	.992	1.019	10
2	+28.8	3.167	.273	.270	8.250	.990	1.023	12
- 4*	+28.2	3.695	.320	.316	8.229	.988	1.026	14*
6	+27.6	4.223	.367	.362	8.216	.987	1.030	16
8	+27.0	4.751	.415	.409	8.202	.985	1.034	18
0	+26.4	5.279	.464	.456	8.188	.983	1.038	20
2	+25.7	5.807	.512	.503	8.175	.982	1.042	22
4	+25.1	6.335	.563	.552	8.159	.980	1.046	24
6	+24.4	6.863	.614	.600	8.144	.978	1.050	26
.0 .8	+24.4	7.391	.665	.649	8.129	.976 .976	1.054	28
.o .0	+23.7	7.919	.716	.698	8.113	.976 .974	1.054	30
2	+23.0 +22.3	8.446	.768	.098 .747	8.097	.974 .972	1.038	32
14 14	+22.3	8.446 8.974	.821	.797	8.097	.972 .970	1.062	32 34
66	+20.9	9.502	.875	.847	8.064	.970 .968	1.000	36
8	+20.9		.928	.897	8.047	.966	1.074	38
0	+20.2 +19.4	10.030 10.558	.928 .983	.897 .948	8.030	.966 .964	1.074	40
				.948 .999				
2	+18.7	11.086	1.039		8.012	.962	1.082	42
4	+17.9	11.614	1.094	1.050	7.994	.960	1.086	44
-6 -8	+17.1	12.142	1.151	1.102	7.976	.958	1.090	46
	+16.2	12.670	1.208	1.154 1.207	7.957 7.937	.955 .953	1.094	48 50
0	+15.4	13.198	1.266				1.098	
2	+14.5	13.725	1.325	1.260	7.918	.951	1.102	52 54
54	+13.7	14.253	1.385	1.313	7.898	.948	1.106	54 56
66	+12.8	14.781	1.444	1.366	7.878	.946	1.110	
8	+11.8	15.309	1.505	1.420	7.858	.943	1.114	58
50	+10.9	15.837	1.568	1.475	7.836	.941	1.118	60
52	+9.9	16.365	1.629	1.529	7.815	.938	1.122	62
54	+8.9	16.893	1.692	1.584	7.794	.936	1.126	64
6	+7.9	17.421	1.756	1.639	7.772	.933	1.130	66
8	+6.8	17.949	1.822	1.697	7.755	.931	1.135	68
0	+5.7	18.477	1.888	1.753	7.733	.929	1.139	70 72
2	+4.6	19.004	1.954	1.809	7.710	.926	1.143	72
4	+3.4	19.532	2.022	1.866	7.686	.923	1.147	74
6	+2.2	20.060	2.091	1.925	7.669	.921	1.152	76
8	+1.0	20.588	2.159	1.982	7.645	.918	1.156	78
0	4	21.116	2.229	2.040	7.620	.915	1.160	80
2	-1.6	21.644	2.300	2.098	7.596	.912	1.164	82
4	-3.0	22.172	2.372	2.158	7.577	.910	1.169	84
6	-4.4	22.700	2.446	2.218	7.551	.907	1.173	86
8 o. ah	-5.8	23.228	2.520	2.279	7.531	.904	1.178	88
8.3 ^b	-6.0 ^b	23.307	2.531	2.288	7.528	.904	1.179	88.3 ^b
0	-1.1	23.756	2.594	2.338	7.506	.901	1.182	90
2	+4.8	24.283	2.670	2.398	7.479	.898	1.186	92
4	+11.1	24.811	2.745	2.459	7.460	.896	1.191	94
5	+14.4	25.075	2.787	2.491	7.444	.894	1.193	95
6	+18.0	25.339	2.827	2.522	7.430	.892	1.195	96
97	+21.6	25.603	2.865	2.552	7.417	.891	1.197	97
98	+25.5	25.867	2.906	2.585	7.409	.890	1.200	98
99	+29.8	26.131	2.947	2.616	7.394	.888	1.202	99
99.6	+32.3	26.289	2.970	2.634	7.386	.887	1.203	99.6
00^{c}	+60.0 ^c	26.395 ^c	2.987	2.647	7.380	.886	1.204	100 ^c

The above table applies to brine tested at 60°F. For other brine temperatures the observed salometer readings must be converted before using them in the table. For practical purposes, add one degree salometer for each 10 degrees above 60°F and deduct one degree salometer for each 10 degrees below 60°F.

Approximate salinity range for seawater.

Temperature at which freezing begins. Ice forms, brine concentrates, and freezing point lowers to eutectic.

Eutectic point. For brines stronger than eutectic, the temperatures shown are the saturation temperatures for sodium chloride dihydrate. Brines stronger than eutectic deposit excess sodium chloride as dihydrate when cooled, and freeze at eutectic.

Saturated brine at 60°F.