

PRODUCT PROFILE

LIQUID AMMONIA PROPERTIES AT VARIOUS TEMPERATURES

TEMP. (°F)	VAPOR PRESSURE (psig)	LIQUID DENSITY # PER US GALLON	SPECIFIC GRAVITY OF LIQUID*	LATENT HEAT (BTU PER #)
-28	0.8	5.69	.682	589.3
-20	3.6	5.64	.675	583.6
-10	9.0	5.59	.669	576.4
0	15.7	5.53	.663	568.9
10	23.8	5.47	.656	561.1
20	33.5	5.41	.648	553.1
30	45.0	5.34	.641	544.8
40	58.6	5.28	.633	536.2
50	74.5	5.21	.625	527.3
60	92.9	5.14	.617	518.1
65	103.1	5.11	.613	513.4
70	114.1	5.08	.609	508.6
75	125.8	5.04	.605	503.7
80	138.3	5.01	.600	498.7
85	151.7	4.97	.596	493.6
90	165.9	4.94	.592	488.5
95	181.1	4.90	.588	483.2
100	197.2	4.87	.583	477.8
105	214.2	4.83	.579	472.3
110	232.3	4.79	.573	466.7
115	251.5	4.75	.570	460.9
120	271.7	4.71	.565	455.0
125	293.1	4.67	.560	448.9
130	315.6	4.63	.555	443
135	339.4	4.59	.550	436
140	364.4	4.55	.545	430

*Compared to water at 4° C.

Under normal conditions ammonia is a very stable compound. It takes excessive temperatures (about 840-930° F) to cause it to dissociate slightly at atmospheric pressure. When this happens the dissociation products are nitrogen and hydrogen. Ammonia gas burns in a mixture with air within a limited range. The flammable limits at atmospheric pressure are 16% to 25% by volume ammonia in air.

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