

R290 SATURADO MEC 3338 DOCENTE: EDGAR S. PEÑARANDA M. UTO FNI
ING.MECANICA ELECTROMECHANICA ORURO BOLIVIA EES 5.648 N

T(°C)	p (kPa)	vf (m3/kg)	vg (m3/kg)	uf(KJ/kg)	ug(KJ/kg)	hf(KJ/kg)	hg(KJ/kg)	sf(KJ/kg)	sg(KJ/kg)
-170	6.07E-05	0.001398	320302	-162.3	363.1	-162.3	382.6	-1.032	4.252
-168	0.000103	0.001402	191844	-158.4	364.7	-158.4	384.5	-0.9948	4.17
-166	0.000172	0.001406	117367	-154.5	366.2	-154.5	386.4	-0.9582	4.092
-164	0.000281	0.00141	73254	-150.6	367.8	-150.6	388.4	-0.9223	4.017
-162	0.00045	0.001414	46594	-146.7	369.4	-146.7	390.3	-0.887	3.946
-160	0.000707	0.001418	30170	-142.8	371	-142.8	392.3	-0.8523	3.878
-158	0.001093	0.001423	19869	-139	372.6	-139	394.3	-0.8182	3.814
-156	0.001661	0.001427	13296	-135	374.2	-135	396.3	-0.7846	3.752
-154	0.002487	0.001431	9033	-131.1	375.8	-131.1	398.3	-0.7515	3.693
-152	0.003668	0.001435	6227	-127.2	377.5	-127.2	400.3	-0.719	3.636
-150	0.005336	0.001439	4351	-123.3	379.1	-123.3	402.3	-0.6869	3.582
-148	0.007661	0.001443	3080	-119.4	380.8	-119.4	404.4	-0.6553	3.531
-146	0.01086	0.001447	2208	-115.5	382.5	-115.5	406.4	-0.6242	3.481
-144	0.01521	0.001452	1601	-111.5	384.2	-111.5	408.5	-0.5936	3.434
-142	0.02106	0.001456	1174	-107.6	385.9	-107.6	410.6	-0.5634	3.388
-140	0.02884	0.00146	870.3	-103.7	387.6	-103.7	412.7	-0.5336	3.345
-138	0.03909	0.001464	651.7	-99.73	389.3	-99.73	414.8	-0.5042	3.303
-136	0.05247	0.001469	492.8	-95.78	391.1	-95.78	416.9	-0.4751	3.263
-134	0.06975	0.001473	376.1	-91.83	392.8	-91.83	419	-0.4465	3.225
-132	0.09188	0.001478	289.6	-87.87	394.6	-87.87	421.2	-0.4183	3.189
-130	0.12	0.001482	224.9	-83.9	396.3	-83.9	423.3	-0.3904	3.153
-128	0.1554	0.001486	176	-79.93	398.1	-79.93	425.5	-0.3628	3.12
-126	0.1997	0.001491	138.9	-75.95	399.9	-75.95	427.7	-0.3356	3.087
-124	0.2547	0.001495	110.4	-71.96	401.8	-71.96	429.9	-0.3087	3.056
-122	0.3224	0.0015	88.35	-67.97	403.6	-67.97	432.1	-0.2821	3.026
-120	0.4053	0.001505	71.2	-63.97	405.4	-63.97	434.3	-0.2558	2.998
-118	0.5061	0.001509	57.75	-59.97	407.3	-59.96	436.5	-0.2298	2.97
-116	0.628	0.001514	47.14	-55.95	409.1	-55.95	438.7	-0.2041	2.944
-114	0.7744	0.001519	38.7	-51.93	411	-51.93	440.9	-0.1787	2.919
-112	0.9494	0.001523	31.96	-47.9	412.9	-47.9	443.2	-0.1535	2.894
-110	1.157	0.001528	26.54	-43.86	414.7	-43.86	445.5	-0.1286	2.871
-108	1.403	0.001533	22.16	-39.82	416.6	-39.82	447.7	-0.104	2.849
-106	1.692	0.001538	18.59	-35.76	418.5	-35.76	450	-0.07957	2.827
-104	2.03	0.001543	15.67	-31.7	420.5	-31.7	452.3	-0.05541	2.806
-102	2.424	0.001548	13.28	-27.63	422.4	-27.63	454.6	-0.03148	2.786
-100	2.881	0.001553	11.3	-23.55	424.3	-23.54	456.9	-0.00777	2.767
-98	3.409	0.001558	9.655	-19.46	426.3	-19.45	459.2	0.01572	2.749
-96	4.016	0.001563	8.286	-15.36	428.2	-15.35	461.5	0.039	2.731
-94	4.711	0.001568	7.14	-11.25	430.2	-11.24	463.8	0.06208	2.714
-92	5.504	0.001573	6.176	-7.125	432.2	-7.116	466.2	0.08495	2.698
-90	6.406	0.001578	5.361	-2.993	434.1	-2.983	468.5	0.1076	2.682
-88	7.428	0.001583	4.671	1.15	436.1	1.162	470.8	0.1301	2.667
-86	8.582	0.001589	4.084	5.304	438.1	5.318	473.2	0.1525	2.653
-84	9.881	0.001594	3.583	9.47	440.1	9.486	475.5	0.1746	2.639
-82	11.34	0.001599	3.153	13.65	442.1	13.67	477.9	0.1966	2.626
-80	12.97	0.001605	2.783	17.84	444.2	17.86	480.3	0.2184	2.613
-78	14.78	0.00161	2.464	22.04	446.2	22.06	482.6	0.24	2.601
-76	16.81	0.001616	2.188	26.25	448.2	26.28	485	0.2615	2.589
-74	19.05	0.001622	1.948	30.48	450.3	30.51	487.4	0.2828	2.578

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-72	21.53	0.001627	1.739	34.72	452.3	34.76	489.8	0.304	2.567
-70	24.26	0.001633	1.557	38.98	454.4	39.02	492.1	0.3251	2.556
-68	27.27	0.001639	1.397	43.24	456.4	43.29	494.5	0.346	2.546
-66	30.57	0.001645	1.256	47.53	458.5	47.58	496.9	0.3668	2.537
-64	34.19	0.001651	1.133	51.82	460.6	51.88	499.3	0.3874	2.527
-62	38.15	0.001657	1.023	56.14	462.7	56.2	501.7	0.4079	2.518
-60	42.46	0.001663	0.9266	60.46	464.8	60.53	504.1	0.4283	2.51
-58	47.16	0.001669	0.8408	64.81	466.8	64.88	506.5	0.4486	2.502
-56	52.26	0.001675	0.7644	69.16	468.9	69.25	508.9	0.4688	2.494
-54	57.79	0.001681	0.6964	73.54	471	73.64	511.3	0.4888	2.486
-52	63.77	0.001688	0.6356	77.93	473.1	78.04	513.7	0.5088	2.479
-50	70.24	0.001694	0.5812	82.34	475.3	82.46	516.1	0.5286	2.472
-48	77.2	0.001701	0.5323	86.76	477.4	86.89	518.5	0.5484	2.466
-46	84.7	0.001707	0.4885	91.21	479.5	91.35	520.9	0.568	2.459
-44	92.76	0.001714	0.4489	95.67	481.6	95.83	523.3	0.5876	2.453
-42	101.4	0.001721	0.4132	100.1	483.7	100.3	525.7	0.607	2.448
-40	110.7	0.001728	0.381	104.6	485.9	104.8	528	0.6264	2.442
-38	120.6	0.001735	0.3517	109.2	488	109.4	530.4	0.6457	2.437
-36	131.2	0.001742	0.3252	113.7	490.1	113.9	532.8	0.6649	2.432
-34	142.4	0.001749	0.3011	118.2	492.3	118.5	535.2	0.684	2.427
-32	154.5	0.001756	0.2792	122.8	494.4	123.1	537.6	0.7031	2.422
-30	167.3	0.001763	0.2592	127.4	496.6	127.7	539.9	0.7221	2.418
-28	180.8	0.001771	0.2409	132	498.7	132.4	542.3	0.741	2.414
-26	195.3	0.001779	0.2242	136.7	500.9	137	544.6	0.7598	2.41
-24	210.5	0.001786	0.2089	141.3	503	141.7	547	0.7786	2.406
-22	226.7	0.001794	0.1949	146	505.2	146.4	549.3	0.7973	2.402
-20	243.8	0.001802	0.182	150.7	507.3	151.2	551.7	0.816	2.399
-18	261.9	0.00181	0.1701	155.4	509.5	155.9	554	0.8346	2.395
-16	280.9	0.001819	0.1592	160.2	511.6	160.7	556.3	0.8532	2.392
-14	301	0.001827	0.1491	165	513.8	165.5	558.6	0.8717	2.389
-12	322.2	0.001836	0.1398	169.8	515.9	170.4	561	0.8901	2.386
-10	344.4	0.001844	0.1312	174.6	518.1	175.2	563.2	0.9085	2.383
-8	367.8	0.001853	0.1233	179.4	520.2	180.1	565.5	0.9269	2.381
-6	392.3	0.001862	0.1159	184.3	522.3	185.1	567.8	0.9452	2.378
-4	418.1	0.001871	0.109	189.2	524.5	190	570.1	0.9635	2.376
-2	445.1	0.001881	0.1027	194.1	526.6	195	572.3	0.9818	2.374
0	473.3	0.00189	0.09675	199.1	528.7	200	574.5	1	2.372
2	502.9	0.0019	0.09124	204.1	530.9	205	576.8	1.018	2.37
4	533.9	0.00191	0.0861	209.1	533	210.1	579	1.036	2.368
6	566.2	0.00192	0.08132	214.1	535.1	215.2	581.2	1.055	2.366
8	599.9	0.001931	0.07684	219.2	537.2	220.4	583.3	1.073	2.364
10	635.1	0.001942	0.07266	224.3	539.3	225.5	585.5	1.091	2.362
12	671.8	0.001952	0.06875	229.4	541.4	230.8	587.6	1.109	2.361
14	710.1	0.001964	0.06508	234.6	543.5	236	589.7	1.127	2.359
16	749.9	0.001975	0.06165	239.8	545.6	241.3	591.8	1.145	2.358
18	791.3	0.001987	0.05842	245	547.6	246.6	593.9	1.163	2.356
20	834.4	0.001999	0.05539	250.3	549.7	252	595.9	1.181	2.355
22	879.2	0.002011	0.05255	255.6	551.7	257.4	597.9	1.199	2.353
24	925.8	0.002024	0.04987	260.9	553.8	262.8	599.9	1.217	2.352

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26	9.74E+02	0.002037	0.04735	266.3	555.8	268.3	601.9	1.235	2.351
28	1024	0.00205	0.04497	271.7	557.8	273.8	603.8	1.253	2.349
30	1076	0.002064	0.04272	277.2	559.7	279.4	605.7	1.271	2.348
32	1130	0.002078	0.04061	282.7	561.7	285	607.6	1.29	2.347
34	1186	0.002093	0.0386	288.2	563.6	290.7	609.4	1.308	2.346
36	1244	0.002108	0.03671	293.8	565.5	296.4	611.2	1.326	2.344
38	1304	0.002124	0.03492	299.4	567.4	302.2	612.9	1.344	2.343
40	1366	0.00214	0.03322	305.1	569.3	308	614.6	1.362	2.342
42	1430	0.002157	0.03161	310.8	571.1	313.9	616.3	1.381	2.34
44	1496	0.002174	0.03009	316.6	572.9	319.8	617.9	1.399	2.339
46	1564	0.002192	0.02864	322.4	574.6	325.8	619.4	1.417	2.338
48	1635	0.002211	0.02726	328.2	576.4	331.8	620.9	1.436	2.336
50	1708	0.00223	0.02595	334.2	578	338	622.4	1.454	2.334
52	1784	0.00225	0.0247	340.1	579.7	344.2	623.7	1.473	2.333
54	1861	0.002271	0.02351	346.2	581.2	350.4	625	1.491	2.331
56	1942	0.002293	0.02237	352.3	582.8	356.7	626.2	1.51	2.329
58	2025	0.002316	0.02129	358.5	584.2	363.1	627.3	1.529	2.327
60	2110	0.002341	0.02025	364.7	585.6	369.6	628.3	1.548	2.325
62	2199	0.002366	0.01926	371	586.9	376.2	629.3	1.567	2.322
64	2290	0.002393	0.01831	377.4	588.1	382.9	630.1	1.586	2.319
66	2383	0.002421	0.0174	383.9	589.3	389.7	630.7	1.605	2.317
68	2480	0.002451	0.01652	390.5	590.3	396.6	631.3	1.625	2.313
70	2580	0.002483	0.01568	397.2	591.2	403.6	631.7	1.645	2.31
72	2683	0.002517	0.01487	403.9	592	410.7	631.9	1.665	2.306
74	2789	0.002554	0.01408	410.9	592.6	418	631.9	1.685	2.301
76	2898	0.002593	0.01332	417.9	593.1	425.4	631.7	1.706	2.297
78	3011	0.002636	0.01259	425.1	593.3	433.1	631.2	1.727	2.291
80	3127	0.002684	0.01187	432.5	593.3	440.9	630.4	1.748	2.285
82	3247	0.002736	0.01116	440.1	593	449	629.3	1.77	2.278
84	3371	0.002795	0.01047	448	592.3	457.4	627.6	1.793	2.269
86	3499	0.002862	0.009777	456.2	591.2	466.3	625.4	1.816	2.259
88	3631	0.00294	0.009078	464.9	589.3	475.5	622.3	1.841	2.247
90	3769	0.003034	0.008353	474.1	586.4	485.5	617.9	1.867	2.232
92	3911	0.003154	0.007562	484.2	581.8	496.5	611.4	1.896	2.211
94	4060	0.003316	0.006561	495.6	572.6	509.1	599.2	1.929	2.175
96	4217	0.003556	0.005742	509.3	563.5	524.3	587.7	1.969	2.141