



ISCEON® MO99™ (R-438A)

PRESSURE-TEMPERATURE GUIDE

Temperature (°C)	R-22	ISCEON® MO99™	
	Saturated Pressure (barg)	Saturated Liquid Pressure (barg)	Saturated Vapor Pressure (barg)
-40	0.04	0.12	-0.18
-39	0.09	0.17	-0.13
-38	0.14	0.23	-0.09
-37	0.19	0.28	-0.04
-36	0.25	0.34	0.01
-35	0.31	0.40	0.06
-34	0.37	0.47	0.11
-33	0.43	0.53	0.16
-32	0.49	0.60	0.22
-31	0.56	0.67	0.28
-30	0.63	0.75	0.34
-29	0.70	0.82	0.40
-28	0.77	0.90	0.47
-27	0.84	0.98	0.53
-26	0.92	1.06	0.60
-25	1.00	1.15	0.68
-24	1.08	1.24	0.75
-23	1.17	1.33	0.83
-22	1.26	1.42	0.91
-21	1.35	1.52	0.99
-20	1.44	1.62	1.07
-19	1.54	1.72	1.16
-18	1.63	1.83	1.25
-17	1.74	1.94	1.35
-16	1.84	2.05	1.44
-15	1.95	2.16	1.54
-14	2.06	2.28	1.64
-13	2.17	2.40	1.75
-12	2.29	2.53	1.86
-11	2.41	2.66	1.97
-10	2.53	2.79	2.09
-9	2.66	2.93	2.21
-8	2.79	3.07	2.33
-7	2.93	3.21	2.45
-6	3.06	3.36	2.58
-5	3.20	3.51	2.72
-4	3.35	3.66	2.85
-3	3.50	3.82	3.00
-2	3.65	3.98	3.14
-1	3.81	4.15	3.29
0	3.97	4.32	3.44
1	4.13	4.50	3.60
2	4.30	4.68	3.76
3	4.47	4.86	3.93
4	4.65	5.05	4.09
5	4.83	5.24	4.27
6	5.01	5.44	4.45
7	5.20	5.64	4.63
8	5.40	5.85	4.82
9	5.59	6.06	5.01
10	5.80	6.28	5.21

Temperature (°C)	R-22	ISCEON® MO99™	
	Saturated Pressure (barg)	Saturated Liquid Pressure (barg)	Saturated Vapor Pressure (barg)
11	6.00	6.50	5.41
12	6.22	6.73	5.62
13	6.43	6.96	5.83
14	6.65	7.19	6.04
15	6.88	7.44	6.27
16	7.11	7.68	6.49
17	7.35	7.94	6.73
18	7.59	8.19	6.96
19	7.84	8.46	7.21
20	8.09	8.73	7.46
21	8.34	9.00	7.71
22	8.61	9.28	7.97
23	8.87	9.57	8.24
24	9.15	9.86	8.51
25	9.43	10.16	8.79
26	9.71	10.46	9.07
27	10.00	10.77	9.36
28	10.30	11.09	9.66
29	10.60	11.41	9.96
30	10.91	11.74	10.27
31	11.22	12.07	10.59
32	11.54	12.42	10.91
33	11.86	12.76	11.24
34	12.20	13.12	11.58
35	12.54	13.48	11.92
36	12.88	13.85	12.27
37	13.23	14.22	12.63
38	13.59	14.61	12.99
39	13.95	14.99	13.36
40	14.32	15.39	13.74
41	14.70	15.79	14.13
42	15.08	16.20	14.53
43	15.48	16.62	14.93
44	15.87	17.05	15.34
45	16.28	17.48	15.76
46	16.69	17.92	16.19
47	17.11	18.37	16.62
48	17.54	18.83	17.06
49	17.97	19.29	17.52
50	18.41	19.76	17.98
51	18.86	20.24	18.45
52	19.32	20.73	18.92
53	19.79	21.23	19.41
54	20.26	21.74	19.91
55	20.74	22.25	20.42
56	21.23	22.77	20.93
57	21.72	23.30	21.46
58	22.23	23.84	21.99
59	22.74	24.39	22.54
60	23.26	24.95	23.09
61	23.79	25.52	23.66

Properties calculated using REFPROP Ver. 9.1 Std. Refrigerant Data Program, NIST 2013

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