

Table 41 Refrigerant 728 (Nitrogen) Properties of Saturated Liquid and Saturated Vapor*

Temp	Pressure	Volume (cm ³ /g)	Enthalpy (J/g)	Entropy (J/g °K)	Temp	Pressure	Volume (cm ³ /g)	Enthalpy (J/g)	Entropy (J/g °K)
K	atm	Sat Liquid	Sat Vapor	Sat Liquid	Sat Vapor	K	atm	Sat Liquid	Sat Vapor
63.15 ^a	1.123	1.123	1.123	0.0	218.1	100	7.076	1.450	31.34
70	1.178	1.167	1.077	3.8	217.8	105	10.69	1.450	31.34
80	1.222	1.190	1.028	14.1	217.5	110	14.48	1.450	31.34
90	1.259	1.222	1.003	24.5	217.2	115	18.42	1.450	31.34
100	1.290	1.248	1.000	34.8	216.9	120	22.50	1.450	31.34
110	1.316	1.269	1.000	45.1	216.6	125	26.72	1.450	31.34
120	1.338	1.286	1.000	55.4	216.3	130	31.08	1.450	31.34
130	1.356	1.300	1.000	65.7	216.0	135	35.58	1.450	31.34
140	1.371	1.311	1.000	76.0	215.7	140	40.22	1.450	31.34
150	1.383	1.320	1.000	86.3	215.4	145	44.99	1.450	31.34
160	1.393	1.327	1.000	96.6	215.1	150	49.88	1.450	31.34

* From published data, National Bureau of Standards, Technical Note 129 (Jan. 1962).

^a Triple point.^b Critical point.

Table 42 Refrigerant 728 (Nitrogen) Properties of Liquid and Vapor*

Temp	Pressure	Volume (cm ³ /g)	Enthalpy (J/g)	Entropy (J/g °K)	Temp	Pressure	Volume (cm ³ /g)	Enthalpy (J/g)	Entropy (J/g °K)
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^a Triple point.^b Critical point.

Table 43 Refrigerant 732 (Oxygen) Properties of Saturated Liquid and Liquid Saturated Vapor*

Temp	Pressure	Density (g/cm ³)	Enthalpy (J/g)	Entropy (J/g °K)	Temp	Pressure	Density (g/cm ³)	Enthalpy (J/g)	Entropy (J/g °K)
K	atm	Sat Liquid	Sat Vapor	Sat Liquid	Sat Vapor	K	atm	Sat Liquid	Sat Vapor
54.353 ^a	0.0120	1.306	0.0001004	65.1	234.0	110	5.366	1.031	0.02129
60	0.0722	1.279	0.0004650	63.1	239.1	120	10.05	0.851	0.03720
70	0.1848	1.233	0.001439	107.9	238.1	130	17.23	0.692	0.07792
80	0.359	1.188	0.004160	123.5	236.7	140	27.47	0.577	0.1155
90	0.5794	1.141	0.004890	140.3	234.4	150	41.63	0.474	0.1504
100	0.809	1.088	0.01043	158.2	231.0	160	60.14	0.381	0.1819

* Unpublished data from Cryogenic Data Center, National Bureau of Standards, Boulder, Colorado.

^a Triple point.^b Critical point.

Table 44 Refrigerant 732 (Oxygen) Properties of Liquid and Vapor*

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