

R-32 pressure–temperature chart

Difluoromethane — a single-component HFC. Also written R32. Saturation pressure from −70 to 76 °C, every 2 K, in kPa gauge and bar gauge, computed with CoolProp.

SAFETY CLASS A2L Lower toxicity, lower flammability	GWP, 100-YEAR 675 (AR4) · 771 (AR6) IPCC assessment reports	ODP 0 Montreal Protocol
CRITICAL POINT 78.11 °C · 5,782.7 kPa abs CoolProp, from its equation of state	NORMAL BOILING POINT −51.65 °C At 101.325 kPa	

SATURATION PRESSURE			SATURATION PRESSURE			SATURATION PRESSURE		
T (°C)	kPa g	bar g	T (°C)	kPa g	bar g	T (°C)	kPa g	bar g
−70	−65.3	−0.65	−20	304.4	3.04	30	1,826.2	18.26
−68	−60.5	−0.61	−18	336.0	3.36	32	1,928.1	19.28
−66	−55.3	−0.55	−16	369.3	3.69	34	2,034.0	20.34
−64	−49.6	−0.50	−14	404.6	4.05	36	2,144.1	21.44
−62	−43.3	−0.43	−12	441.9	4.42	38	2,258.3	22.58
−60	−36.4	−0.36	−10	481.3	4.81	40	2,377.0	23.77
−58	−28.8	−0.29	−8	522.8	5.23	42	2,500.1	25.00
−56	−20.6	−0.21	−6	566.5	5.67	44	2,627.8	26.28
−54	−11.6	−0.12	−4	612.6	6.13	46	2,760.3	27.60
−52	−1.8	−0.02	−2	660.9	6.61	48	2,897.6	28.98
−50	8.8	0.09	0	711.8	7.12	50	3,039.9	30.40
−48	20.3	0.20	2	765.1	7.65	52	3,187.4	31.87
−46	32.7	0.33	4	821.1	8.21	54	3,340.1	33.40
−44	46.1	0.46	6	879.8	8.80	56	3,498.4	34.98
−42	60.6	0.61	8	941.3	9.41	58	3,662.2	36.62
−40	76.1	0.76	10	1,005.6	10.06	60	3,831.9	38.32
−38	92.8	0.93	12	1,072.9	10.73	62	4,007.6	40.08
−36	110.6	1.11	14	1,143.2	11.43	64	4,189.6	41.90
−34	129.8	1.30	16	1,216.6	12.17	66	4,378.0	43.78
−32	150.3	1.50	18	1,293.3	12.93	68	4,573.2	45.73
−30	172.1	1.72	20	1,373.2	13.73	70	4,775.5	47.75
−28	195.4	1.95	22	1,456.6	14.57	72	4,985.3	49.85
−26	220.2	2.20	24	1,543.5	15.44	74	5,203.2	52.03
−24	246.6	2.47	26	1,634.0	16.34	76	5,430.2	54.30
−22	274.7	2.75	28	1,728.2	17.28			

NOTES	Gauge pressure is absolute pressure less a standard atmosphere, 101.325 kPa; below it, gauge pressure is negative.
SOURCES	Computed with CoolProp 7.2.1dev (HEOS backend, MIT licence), from published equations of state. Cite: Bell, I.H., Wronski, J., Quoilin, S., Lemort, V. (2014). Pure and pseudo-pure fluid thermophysical property evaluation and the open-source thermophysical property library CoolProp. Ind. Eng. Chem. Res. 53(6), 2498-2508. GWP, ODP and safety class: UNEP RTOC 2018, DCCEEW (Australian Government), IPCC AR4 (2007), IPCC AR6 (2021), Montreal Protocol, GHG Protocol (2024).
ONLINE	kelvin.engineering/refrigerants/r-32 — this table in kPa absolute, and the P–h diagram kelvin.engineering/tools/superheat-subcooling?r=r-32 — superheat and subcooling calculator
VERIFY	These figures must be verified by a qualified professional before they're relied on.