

Methane, difluoro-

Other names:	CH2F2 Carbon fluoride hydride Freon 32 Genetron 32 HFC 32 Methylene fluoride R 32 R 32 (refrigerant) R-32 difluoromethane methylene difluoride
Inchi:	InChI=1S/CH2F2/c2-1-3/h1H2
InchiKey:	RWRIWBALICGTTQ-UHFFFAOYSA-N
Formula:	CH2F2
SMILES:	FCF
Mol. weight [g/mol]:	52.02
CAS:	75-10-5

Physical Properties

Property code	Value	Unit	Source
af	0.2160		Cheméo Relay (1.0)
affp	620.50	kJ/mol	NIST Webbook
basg	589.70	kJ/mol	NIST Webbook
chg	-583.08	kJ/mol	NIST Webbook
gf	-432.08	kJ/mol	Joback Method
hf	-452.21 ± 0.92	kJ/mol	NIST Webbook
hfus	4.51	kJ/mol	Joback Method
ie	12.71	eV	NIST Webbook
ie	12.70	eV	NIST Webbook
ie	12.72	eV	NIST Webbook
ie	13.27	eV	NIST Webbook
logp	0.883		Crippen Method
mcvol	28.490	ml/mol	McGowan Method
pc	5785.00 ± 3.00	kPa	NIST Webbook
pc	5785.00 ± 4.00	kPa	NIST Webbook
pc	5784.00 ± 2.50	kPa	NIST Webbook
pc	5785.00 ± 9.00	kPa	NIST Webbook

rhoc	428.50 ± 1.04	kg/m3	NIST Webbook
rhoc	425.03 ± 4.16	kg/m3	NIST Webbook
rhoc	434.92 ± 5.20	kg/m3	NIST Webbook
rhoc	427.11 ± 5.20	kg/m3	NIST Webbook
rhoc	423.99 ± 2.08	kg/m3	NIST Webbook
rhoc	428.15 ± 5.20	kg/m3	NIST Webbook
rhoc	430.23 ± 5.20	kg/m3	NIST Webbook
rinpol	230.00		NIST Webbook
rinpol	183.00		NIST Webbook
rinpol	230.00		NIST Webbook
tb	221.40	K	NIST Webbook
tb	221.60 ± 0.30	K	NIST Webbook
tb	221.00 ± 2.00	K	NIST Webbook
tb	221.60 ± 1.00	K	NIST Webbook
tc	351.26 ± 0.03	K	NIST Webbook
tc	351.25 ± 0.03	K	NIST Webbook
tc	351.26 ± 0.05	K	NIST Webbook
tc	351.29 ± 0.03	K	NIST Webbook
tc	351.14 ± 0.30	K	NIST Webbook
tc	351.29 ± 0.02	K	NIST Webbook
tf	118.17	K	Cheméo Relay (1.0)
vc	0.118	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	42.42	J/mol×K	265.56	Joback Method
cpg	46.39	J/mol×K	310.29	Joback Method
cpg	38.23	J/mol×K	220.82	Joback Method
cpg	40.35	J/mol×K	243.19	Joback Method
cpg	44.43	J/mol×K	287.93	Joback Method
cpg	50.16	J/mol×K	355.03	Joback Method
cpg	48.30	J/mol×K	332.66	Joback Method
cpl	109.77	J/mol×K	315.00	Measurements of the Isobaric Specific Heat Capacity for 1,1,1-Trifluoroethane (R143a), Pentafluoroethane (R125), and Difluoromethane (R32) in the Liquid Phase

cpl	138.90	J/mol×K	335.00	Measurements of the Isobaric Specific Heat Capacity for 1,1,1-Trifluoroethane (R143a), Pentafluoroethane (R125), and Difluoromethane (R32) in the Liquid Phase
cpl	106.65	J/mol×K	310.00	Measurements of the Isobaric Specific Heat Capacity for 1,1,1-Trifluoroethane (R143a), Pentafluoroethane (R125), and Difluoromethane (R32) in the Liquid Phase
cpl	164.39	J/mol×K	340.00	Measurements of the Isobaric Specific Heat Capacity for 1,1,1-Trifluoroethane (R143a), Pentafluoroethane (R125), and Difluoromethane (R32) in the Liquid Phase
cpl	125.90	J/mol×K	330.00	Measurements of the Isobaric Specific Heat Capacity for 1,1,1-Trifluoroethane (R143a), Pentafluoroethane (R125), and Difluoromethane (R32) in the Liquid Phase
cpl	119.65	J/mol×K	325.00	Measurements of the Isobaric Specific Heat Capacity for 1,1,1-Trifluoroethane (R143a), Pentafluoroethane (R125), and Difluoromethane (R32) in the Liquid Phase

cpl	113.41	J/mol×K	320.00	Measurements of the Isobaric Specific Heat Capacity for 1,1,1-Trifluoroethane (R143a), Pentafluoroethane (R125), and Difluoromethane (R32) in the Liquid Phase
hfust	4.36	kJ/mol	136.40	NIST Webbook
hfust	4.40	kJ/mol	136.40	NIST Webbook
hvapt	21.20	kJ/mol	206.50	NIST Webbook
hvapt	20.60	kJ/mol	197.00	NIST Webbook
hvapt	21.20	kJ/mol	206.00	NIST Webbook
hvapt	20.30	kJ/mol	333.50	NIST Webbook
hvapt	20.30	kJ/mol	224.50	NIST Webbook
hvapt	20.60	kJ/mol	216.50	NIST Webbook
hvapt	19.90	kJ/mol	288.50	NIST Webbook
kvisc	0.0000001	m2/s	293.15	Surface Tension and Liquid Viscosity of R32+R1234yf and R32 + R1234ze
kvisc	7.5000000e-08	m2/s	348.18	Surface Tension and Liquid Viscosity of R32+R1234yf and R32 + R1234ze
kvisc	7.9500000e-08	m2/s	343.16	Surface Tension and Liquid Viscosity of R32+R1234yf and R32 + R1234ze
kvisc	9.3000000e-08	m2/s	333.14	Surface Tension and Liquid Viscosity of R32+R1234yf and R32 + R1234ze
kvisc	9.9800000e-08	m2/s	323.15	Surface Tension and Liquid Viscosity of R32+R1234yf and R32 + R1234ze
kvisc	0.0000001	m2/s	313.07	Surface Tension and Liquid Viscosity of R32+R1234yf and R32 + R1234ze

kvisc	0.0000001	m2/s	303.15	Surface Tension and Liquid Viscosity of R32+R1234yf and R32 + R1234ze	
pvap	2475.90	kPa	313.15	Vapor-Liquid Equilibria for the Binary and Ternary Systems of Difluoromethane (R32), 1,1-Difluoroethane (R152a), and 2,3,3,3-Tetrafluoroprop-1-ene (R1234yf)	
pvap	1935.00	kPa	303.27	Vapor-Liquid Equilibrium Data for the Azeotropic Difluoromethane + Propane System at Temperatures from 294.83 to 343.26 K and Pressures up to 5.4 MPa	
pvap	1925.00	kPa	303.15	Vapor-Liquid Equilibrium Data for the Binary Mixture Difluoromethane (HFC-32) + Pentafluoroethane (HFC-125) of an Alternative Refrigerant	
pvap	1475.00	kPa	293.15	Vapor-Liquid Equilibrium Data for the Binary Mixture Difluoromethane (HFC-32) + Pentafluoroethane (HFC-125) of an Alternative Refrigerant	
pvap	1107.00	kPa	283.15	Vapor-Liquid Equilibrium Data for the Binary Mixture Difluoromethane (HFC-32) + Pentafluoroethane (HFC-125) of an Alternative Refrigerant	

pvap	866.50	kPa	275.15	Vapor-Liquid Equilibrium Data for the Binary Mixture Difluoromethane (HFC-32) + Pentafluoroethane (HFC-125) of an Alternative Refrigerant
pvap	624.10	kPa	265.15	Vapor-Liquid Equilibrium Data for the Binary Mixture Difluoromethane (HFC-32) + Pentafluoroethane (HFC-125) of an Alternative Refrigerant
pvap	4884.00	kPa	343.15	Vapor-Liquid Equilibria of the Difluoromethane + Dimethyl Ether and 1,1,1,2-Tetrafluoroethane + Dimethyl Ether Systems
pvap	3934.00	kPa	333.15	Vapor-Liquid Equilibria of the Difluoromethane + Dimethyl Ether and 1,1,1,2-Tetrafluoroethane + Dimethyl Ether Systems
pvap	3138.00	kPa	323.15	Vapor-Liquid Equilibria of the Difluoromethane + Dimethyl Ether and 1,1,1,2-Tetrafluoroethane + Dimethyl Ether Systems
pvap	2469.00	kPa	313.15	Vapor-Liquid Equilibria of the Difluoromethane + Dimethyl Ether and 1,1,1,2-Tetrafluoroethane + Dimethyl Ether Systems
pvap	1473.20	kPa	293.15	Vapor-Liquid Equilibrium for the Difluoromethane (R32) + n-Butane (R600) System

pvap	949.60	kPa	278.15	Vapor-Liquid Equilibrium for the Difluoromethane (R32) + n-Butane (R600) System
pvap	580.20	kPa	263.15	Vapor-Liquid Equilibrium for the Difluoromethane (R32) + n-Butane (R600) System
pvap	3933.00	kPa	333.15	Vapor-Liquid Equilibria of the Binary n-Butane (HC-600) + Difluoromethane (HFC-32), + Pentafluoroethane (HFC-125), + 1,1,1,2-Tetrafluoroethane (HFC-134a) Mixture Systems
pvap	3137.00	kPa	323.15	Vapor-Liquid Equilibria of the Binary n-Butane (HC-600) + Difluoromethane (HFC-32), + Pentafluoroethane (HFC-125), + 1,1,1,2-Tetrafluoroethane (HFC-134a) Mixture Systems
pvap	2476.00	kPa	313.15	Vapor-Liquid Equilibria of the Binary n-Butane (HC-600) + Difluoromethane (HFC-32), + Pentafluoroethane (HFC-125), + 1,1,1,2-Tetrafluoroethane (HFC-134a) Mixture Systems
pvap	1474.60	kPa	293.15	Isothermal VLE Measurements for Difluoromethane + Dimethylether and an Evaluation of Hydrogen Bonding
pvap	814.00	kPa	273.15	Isothermal VLE Measurements for Difluoromethane + Dimethylether and an Evaluation of Hydrogen Bonding

pvap	488.10	kPa	258.15	Isothermal VLE Measurements for Difluoromethane + Dimethylether and an Evaluation of Hydrogen Bonding
pvap	2478.00	kPa	313.15	Measurement of Vapor-Liquid Equilibria for the Binary Mixture Difluoromethane (HFC-32) + Propylene (R-1270)
pvap	1930.40	kPa	303.15	Measurement of Vapor-Liquid Equilibria for the Binary Mixture Difluoromethane (HFC-32) + Propylene (R-1270)
pvap	1480.20	kPa	293.15	Measurement of Vapor-Liquid Equilibria for the Binary Mixture Difluoromethane (HFC-32) + Propylene (R-1270)
pvap	1111.80	kPa	283.15	Measurement of Vapor-Liquid Equilibria for the Binary Mixture Difluoromethane (HFC-32) + Propylene (R-1270)
pvap	816.80	kPa	273.15	Measurement of Vapor-Liquid Equilibria for the Binary Mixture Difluoromethane (HFC-32) + Propylene (R-1270)
pvap	2794.80	kPa	318.15	Vapor-Liquid Equilibria for the Binary System Difluoromethane (HFC-32) + Propane (HC-290) at Seven Temperatures [(268.15, 278.15, 283.15, 288.15, 298.15, 308.15, and 318.15) K]

pvap	2185.20	kPa	308.15	Vapor-Liquid Equilibria for the Binary System Difluoromethane (HFC-32) + Propane (HC-290) at Seven Temperatures [(268.15, 278.15, 283.15, 288.15, 298.15, 308.15, and 318.15) K]
pvap	1685.60	kPa	298.15	Vapor-Liquid Equilibria for the Binary System Difluoromethane (HFC-32) + Propane (HC-290) at Seven Temperatures [(268.15, 278.15, 283.15, 288.15, 298.15, 308.15, and 318.15) K]
pvap	1281.20	kPa	288.15	Vapor-Liquid Equilibria for the Binary System Difluoromethane (HFC-32) + Propane (HC-290) at Seven Temperatures [(268.15, 278.15, 283.15, 288.15, 298.15, 308.15, and 318.15) K]
pvap	1102.20	kPa	283.15	Vapor-Liquid Equilibria for the Binary System Difluoromethane (HFC-32) + Propane (HC-290) at Seven Temperatures [(268.15, 278.15, 283.15, 288.15, 298.15, 308.15, and 318.15) K]
pvap	952.00	kPa	278.15	Vapor-Liquid Equilibria for the Binary System Difluoromethane (HFC-32) + Propane (HC-290) at Seven Temperatures [(268.15, 278.15, 283.15, 288.15, 298.15, 308.15, and 318.15) K]

pvap	695.40	kPa	268.15	Vapor-Liquid Equilibria for the Binary System Difluoromethane (HFC-32) + Propane (HC-290) at Seven Temperatures [(268.15, 278.15, 283.15, 288.15, 298.15, 308.15, and 318.15) K]
pvap	4892.00	kPa	343.26	Vapor-Liquid Equilibrium Data for the Azeotropic Difluoromethane + Propane System at Temperatures from 294.83 to 343.26 K and Pressures up to 5.4 MPa
pvap	3526.00	kPa	328.31	Vapor-Liquid Equilibrium Data for the Azeotropic Difluoromethane + Propane System at Temperatures from 294.83 to 343.26 K and Pressures up to 5.4 MPa
pvap	3147.00	kPa	323.30	Vapor-Liquid Equilibrium Data for the Azeotropic Difluoromethane + Propane System at Temperatures from 294.83 to 343.26 K and Pressures up to 5.4 MPa
pvap	2801.00	kPa	318.28	Vapor-Liquid Equilibrium Data for the Azeotropic Difluoromethane + Propane System at Temperatures from 294.83 to 343.26 K and Pressures up to 5.4 MPa

pvap	2485.00	kPa	313.30	Vapor-Liquid Equilibrium Data for the Azeotropic Difluoromethane + Propane System at Temperatures from 294.83 to 343.26 K and Pressures up to 5.4 MPa
pvap	2197.00	kPa	308.28	Vapor-Liquid Equilibrium Data for the Azeotropic Difluoromethane + Propane System at Temperatures from 294.83 to 343.26 K and Pressures up to 5.4 MPa
pvap	1697.00	kPa	298.26	Vapor-Liquid Equilibrium Data for the Azeotropic Difluoromethane + Propane System at Temperatures from 294.83 to 343.26 K and Pressures up to 5.4 MPa
pvap	1481.00	kPa	293.24	Vapor-Liquid Equilibrium Data for the Azeotropic Difluoromethane + Propane System at Temperatures from 294.83 to 343.26 K and Pressures up to 5.4 MPa
pvap	488.10	kPa	258.15	Vapor-liquid equilibrium of difluoromethane +1,1,1,2-tetrafluoroethane systems over a temperature range from 258.15 to 343.15K
pvap	690.60	kPa	268.15	Vapor-liquid equilibrium of difluoromethane +1,1,1,2-tetrafluoroethane systems over a temperature range from 258.15 to 343.15K

pvap	866.50	kPa	275.15	Vapor-liquid equilibrium of difluoromethane +1,1,1,2-tetrafluoroethane systems over a temperature range from 258.15 to 343.15K
pvap	1107.00	kPa	283.15	Vapor-liquid equilibrium of difluoromethane +1,1,1,2-tetrafluoroethane systems over a temperature range from 258.15 to 343.15K
pvap	1475.00	kPa	293.15	Vapor-liquid equilibrium of difluoromethane +1,1,1,2-tetrafluoroethane systems over a temperature range from 258.15 to 343.15K
pvap	1928.00	kPa	303.15	Vapor-liquid equilibrium of difluoromethane +1,1,1,2-tetrafluoroethane systems over a temperature range from 258.15 to 343.15K
pvap	2478.00	kPa	313.15	Vapor-liquid equilibrium of difluoromethane +1,1,1,2-tetrafluoroethane systems over a temperature range from 258.15 to 343.15K
pvap	3141.00	kPa	323.15	Vapor-liquid equilibrium of difluoromethane +1,1,1,2-tetrafluoroethane systems over a temperature range from 258.15 to 343.15K
pvap	3933.00	kPa	333.15	Vapor-liquid equilibrium of difluoromethane +1,1,1,2-tetrafluoroethane systems over a temperature range from 258.15 to 343.15K

pvap	4877.00	kPa	343.15	Vapor-liquid equilibrium of difluoromethane +1,1,1,2-tetrafluoroethane systems over a temperature range from 258.15 to 343.15K
pvap	1107.30	kPa	283.15	Isothermal vapor liquid equilibrium measurements for difluoromethane (R32) + trans-1,3,3,3-tetrafluoropropene (R1234ze(E))
pvap	1280.60	kPa	288.15	Isothermal vapor liquid equilibrium measurements for difluoromethane (R32) + trans-1,3,3,3-tetrafluoropropene (R1234ze(E))
pvap	1474.00	kPa	293.15	Isothermal vapor liquid equilibrium measurements for difluoromethane (R32) + trans-1,3,3,3-tetrafluoropropene (R1234ze(E))
pvap	1689.50	kPa	298.17	Isothermal vapor liquid equilibrium measurements for difluoromethane (R32) + trans-1,3,3,3-tetrafluoropropene (R1234ze(E))
pvap	1925.80	kPa	303.14	Isothermal vapor liquid equilibrium measurements for difluoromethane (R32) + trans-1,3,3,3-tetrafluoropropene (R1234ze(E))
pvap	2188.20	kPa	308.15	Isothermal vapor liquid equilibrium measurements for difluoromethane (R32) + trans-1,3,3,3-tetrafluoropropene (R1234ze(E))

pvap	2476.20	kPa	313.15	Isothermal vapor liquid equilibrium measurements for difluoromethane (R32) + trans-1,3,3,3-tetrafluoropropene (R1234ze(E))
pvap	2791.60	kPa	318.14	Isothermal vapor liquid equilibrium measurements for difluoromethane (R32) + trans-1,3,3,3-tetrafluoropropene (R1234ze(E))
pvap	3138.00	kPa	323.14	Isothermal vapor liquid equilibrium measurements for difluoromethane (R32) + trans-1,3,3,3-tetrafluoropropene (R1234ze(E))
pvap	1107.30	kPa	283.15	Vapor liquid equilibrium measurements for difluoromethane (R32) + 2,3,3,3-tetrafluoroprop-1-ene (R1234yf) and fluoroethane (R161) + 2,3,3,3-tetrafluoroprop-1-ene (R1234yf)
pvap	1474.00	kPa	293.15	Vapor liquid equilibrium measurements for difluoromethane (R32) + 2,3,3,3-tetrafluoroprop-1-ene (R1234yf) and fluoroethane (R161) + 2,3,3,3-tetrafluoroprop-1-ene (R1234yf)
pvap	1925.80	kPa	303.15	Vapor liquid equilibrium measurements for difluoromethane (R32) + 2,3,3,3-tetrafluoroprop-1-ene (R1234yf) and fluoroethane (R161) + 2,3,3,3-tetrafluoroprop-1-ene (R1234yf)

pvap	2476.20	kPa	313.15	Vapor liquid equilibrium measurements for difluoromethane (R32) + 2,3,3,3-tetrafluoroprop-1-ene (R1234yf) and fluoroethane (R161) + 2,3,3,3-tetrafluoroprop-1-ene (R1234yf)
pvap	3138.00	kPa	323.15	Vapor liquid equilibrium measurements for difluoromethane (R32) + 2,3,3,3-tetrafluoroprop-1-ene (R1234yf) and fluoroethane (R161) + 2,3,3,3-tetrafluoroprop-1-ene (R1234yf)
pvap	1022.00	kPa	280.59	Experimental vapour liquid equilibrium data and modeling for binary mixtures of 1-butene with 1,1,2,3,3,3-hexafluoro-1-propene, 2,2,3-trifluoro-3-(trifluoromethyl)oxirane, or difluoromethane
pvap	1109.00	kPa	283.05	Experimental vapour liquid equilibrium data and modeling for binary mixtures of 1-butene with 1,1,2,3,3,3-hexafluoro-1-propene, 2,2,3-trifluoro-3-(trifluoromethyl)oxirane, or difluoromethane
pvap	1195.00	kPa	285.52	Experimental vapour liquid equilibrium data and modeling for binary mixtures of 1-butene with 1,1,2,3,3,3-hexafluoro-1-propene, 2,2,3-trifluoro-3-(trifluoromethyl)oxirane, or difluoromethane

pvap	1280.00	kPa	288.02	Experimental vapour liquid equilibrium data and modeling for binary mixtures of 1-butene with 1,1,2,3,3,3-hexafluoro-1-propene, 2,2,3-trifluoro-3-(trifluoromethyl)oxirane, or difluoromethane
pvap	1364.00	kPa	290.46	Experimental vapour liquid equilibrium data and modeling for binary mixtures of 1-butene with 1,1,2,3,3,3-hexafluoro-1-propene, 2,2,3-trifluoro-3-(trifluoromethyl)oxirane, or difluoromethane
pvap	1474.00	kPa	293.02	Experimental vapour liquid equilibrium data and modeling for binary mixtures of 1-butene with 1,1,2,3,3,3-hexafluoro-1-propene, 2,2,3-trifluoro-3-(trifluoromethyl)oxirane, or difluoromethane
pvap	1578.00	kPa	295.49	Experimental vapour liquid equilibrium data and modeling for binary mixtures of 1-butene with 1,1,2,3,3,3-hexafluoro-1-propene, 2,2,3-trifluoro-3-(trifluoromethyl)oxirane, or difluoromethane
pvap	1684.00	kPa	298.01	Experimental vapour liquid equilibrium data and modeling for binary mixtures of 1-butene with 1,1,2,3,3,3-hexafluoro-1-propene, 2,2,3-trifluoro-3-(trifluoromethyl)oxirane, or difluoromethane

pvap	1793.00	kPa	300.48	Experimental vapour liquid equilibrium data and modeling for binary mixtures of 1-butene with 1,1,2,3,3,3-hexafluoro-1-propene, 2,2,3-trifluoro-3-(trifluoromethyl)oxirane, or difluoromethane
pvap	1918.00	kPa	302.94	Experimental vapour liquid equilibrium data and modeling for binary mixtures of 1-butene with 1,1,2,3,3,3-hexafluoro-1-propene, 2,2,3-trifluoro-3-(trifluoromethyl)oxirane, or difluoromethane
pvap	2051.00	kPa	305.46	Experimental vapour liquid equilibrium data and modeling for binary mixtures of 1-butene with 1,1,2,3,3,3-hexafluoro-1-propene, 2,2,3-trifluoro-3-(trifluoromethyl)oxirane, or difluoromethane
pvap	2179.00	kPa	307.91	Experimental vapour liquid equilibrium data and modeling for binary mixtures of 1-butene with 1,1,2,3,3,3-hexafluoro-1-propene, 2,2,3-trifluoro-3-(trifluoromethyl)oxirane, or difluoromethane
pvap	2318.00	kPa	310.48	Experimental vapour liquid equilibrium data and modeling for binary mixtures of 1-butene with 1,1,2,3,3,3-hexafluoro-1-propene, 2,2,3-trifluoro-3-(trifluoromethyl)oxirane, or difluoromethane

pvap	2459.00	kPa	312.90	Experimental vapour liquid equilibrium data and modeling for binary mixtures of 1-butene with 1,1,2,3,3,3-hexafluoro-1-propene, 2,2,3-trifluoro-3-(trifluoromethyl)oxirane, or difluoromethane
pvap	2614.00	kPa	315.43	Experimental vapour liquid equilibrium data and modeling for binary mixtures of 1-butene with 1,1,2,3,3,3-hexafluoro-1-propene, 2,2,3-trifluoro-3-(trifluoromethyl)oxirane, or difluoromethane
pvap	2772.00	kPa	317.89	Experimental vapour liquid equilibrium data and modeling for binary mixtures of 1-butene with 1,1,2,3,3,3-hexafluoro-1-propene, 2,2,3-trifluoro-3-(trifluoromethyl)oxirane, or difluoromethane
pvap	2948.00	kPa	320.41	Experimental vapour liquid equilibrium data and modeling for binary mixtures of 1-butene with 1,1,2,3,3,3-hexafluoro-1-propene, 2,2,3-trifluoro-3-(trifluoromethyl)oxirane, or difluoromethane
pvap	3120.00	kPa	322.92	Experimental vapour liquid equilibrium data and modeling for binary mixtures of 1-butene with 1,1,2,3,3,3-hexafluoro-1-propene, 2,2,3-trifluoro-3-(trifluoromethyl)oxirane, or difluoromethane

pvap	3303.00	kPa	325.42	Experimental vapour liquid equilibrium data and modeling for binary mixtures of 1-butene with 1,1,2,3,3,3-hexafluoro-1-propene, 2,2,3-trifluoro-3-(trifluoromethyl)oxirane, or difluoromethane
pvap	3498.00	kPa	327.90	Experimental vapour liquid equilibrium data and modeling for binary mixtures of 1-butene with 1,1,2,3,3,3-hexafluoro-1-propene, 2,2,3-trifluoro-3-(trifluoromethyl)oxirane, or difluoromethane
pvap	3694.00	kPa	330.35	Experimental vapour liquid equilibrium data and modeling for binary mixtures of 1-butene with 1,1,2,3,3,3-hexafluoro-1-propene, 2,2,3-trifluoro-3-(trifluoromethyl)oxirane, or difluoromethane
pvap	3910.00	kPa	332.91	Experimental vapour liquid equilibrium data and modeling for binary mixtures of 1-butene with 1,1,2,3,3,3-hexafluoro-1-propene, 2,2,3-trifluoro-3-(trifluoromethyl)oxirane, or difluoromethane
pvap	4138.00	kPa	335.40	Experimental vapour liquid equilibrium data and modeling for binary mixtures of 1-butene with 1,1,2,3,3,3-hexafluoro-1-propene, 2,2,3-trifluoro-3-(trifluoromethyl)oxirane, or difluoromethane

pvap	4370.00	kPa	337.93	Experimental vapour liquid equilibrium data and modeling for binary mixtures of 1-butene with 1,1,2,3,3,3-hexafluoro-1-propene, 2,2,3-trifluoro-3-(trifluoromethyl)oxirane, or difluoromethane
pvap	4602.00	kPa	340.43	Experimental vapour liquid equilibrium data and modeling for binary mixtures of 1-butene with 1,1,2,3,3,3-hexafluoro-1-propene, 2,2,3-trifluoro-3-(trifluoromethyl)oxirane, or difluoromethane
pvap	4854.00	kPa	342.88	Experimental vapour liquid equilibrium data and modeling for binary mixtures of 1-butene with 1,1,2,3,3,3-hexafluoro-1-propene, 2,2,3-trifluoro-3-(trifluoromethyl)oxirane, or difluoromethane
pvap	5117.00	kPa	345.40	Experimental vapour liquid equilibrium data and modeling for binary mixtures of 1-butene with 1,1,2,3,3,3-hexafluoro-1-propene, 2,2,3-trifluoro-3-(trifluoromethyl)oxirane, or difluoromethane
pvap	5392.00	kPa	347.89	Experimental vapour liquid equilibrium data and modeling for binary mixtures of 1-butene with 1,1,2,3,3,3-hexafluoro-1-propene, 2,2,3-trifluoro-3-(trifluoromethyl)oxirane, or difluoromethane

pvap	1473.20	kPa	293.15	Experimental measurements and correlation of isothermal vapor-liquid equilibria for HFC-32 + HFO-1234ze (E) and HFC-134a + HFO-1234ze (E) binary systems
pvap	1926.70	kPa	303.15	Experimental measurements and correlation of isothermal vapor-liquid equilibria for HFC-32 + HFO-1234ze (E) and HFC-134a + HFO-1234ze (E) binary systems
pvap	2476.30	kPa	313.15	Experimental measurements and correlation of isothermal vapor-liquid equilibria for HFC-32 + HFO-1234ze (E) and HFC-134a + HFO-1234ze (E) binary systems
pvap	3142.20	kPa	323.14	Experimental measurements and correlation of isothermal vapor-liquid equilibria for HFC-32 + HFO-1234ze (E) and HFC-134a + HFO-1234ze (E) binary systems
pvap	1106.20	kPa	283.15	Vapor-Liquid Equilibria for the Binary and Ternary Systems of Difluoromethane (R32), 1,1-Difluoroethane (R152a), and 2,3,3,3-Tetrafluoroprop-1-ene (R1234yf)

pvap	1279.90	kPa	288.15	Vapor-Liquid Equilibria for the Binary and Ternary Systems of Difluoromethane (R32), 1,1-Difluoroethane (R152a), and 2,3,3,3-Tetrafluoroprop-1-ene (R1234yf)
pvap	1473.70	kPa	293.16	Vapor-Liquid Equilibria for the Binary and Ternary Systems of Difluoromethane (R32), 1,1-Difluoroethane (R152a), and 2,3,3,3-Tetrafluoroprop-1-ene (R1234yf)
pvap	1688.40	kPa	298.16	Vapor-Liquid Equilibria for the Binary and Ternary Systems of Difluoromethane (R32), 1,1-Difluoroethane (R152a), and 2,3,3,3-Tetrafluoroprop-1-ene (R1234yf)
pvap	1925.30	kPa	303.15	Vapor-Liquid Equilibria for the Binary and Ternary Systems of Difluoromethane (R32), 1,1-Difluoroethane (R152a), and 2,3,3,3-Tetrafluoroprop-1-ene (R1234yf)
pvap	2188.30	kPa	308.15	Vapor-Liquid Equilibria for the Binary and Ternary Systems of Difluoromethane (R32), 1,1-Difluoroethane (R152a), and 2,3,3,3-Tetrafluoroprop-1-ene (R1234yf)

pvap	1286.00	kPa	288.21	Vapor-Liquid Equilibrium Data for the Azeotropic Difluoromethane + Propane System at Temperatures from 294.83 to 343.26 K and Pressures up to 5.4 MPa
pvap	2792.00	kPa	318.15	Vapor-Liquid Equilibria for the Binary and Ternary Systems of Difluoromethane (R32), 1,1-Difluoroethane (R152a), and 2,3,3,3-Tetrafluoroprop-1-ene (R1234yf)
pvap	3137.60	kPa	323.15	Vapor-Liquid Equilibria for the Binary and Ternary Systems of Difluoromethane (R32), 1,1-Difluoroethane (R152a), and 2,3,3,3-Tetrafluoroprop-1-ene (R1234yf)
pvap	1111.00	kPa	283.19	Vapor-Liquid Equilibrium Data for the Azeotropic Difluoromethane + Propane System at Temperatures from 294.83 to 343.26 K and Pressures up to 5.4 MPa
srf	0.01	N/m	294.05	Surface Tension Measurements of Difluoromethane(R-32) and the Binary Mixture Difluoromethane(R-32) + 1,1,1,2-tetrafluoroethane(R-134a) from (253 to 333) K
srf	0.01	N/m	276.85	Surface Tension Measurements of Difluoromethane(R-32) and the Binary Mixture Difluoromethane(R-32) + 1,1,1,2-tetrafluoroethane(R-134a) from (253 to 333) K

srf	0.01	N/m	257.00	Surface Tension Measurements of Difluoromethane(R-32) and the Binary Mixture Difluoromethane(R-32) + 1,1,1,2-tetrafluoroethane(R-134a) from (253 to 333) K
srf	0.01	N/m	305.30	Surface Tension Measurements of Difluoromethane(R-32) and the Binary Mixture Difluoromethane(R-32) + 1,1,1,2-tetrafluoroethane(R-134a) from (253 to 333) K
srf	0.01	N/m	257.00	Surface Tension Measurements of Difluoromethane(R-32) and the Binary Mixture Difluoromethane(R-32) + 1,1,1,2-tetrafluoroethane(R-134a) from (253 to 333) K
srf	0.01	N/m	260.46	Surface Tension Measurements of Difluoromethane(R-32) and the Binary Mixture Difluoromethane(R-32) + 1,1,1,2-tetrafluoroethane(R-134a) from (253 to 333) K
srf	0.01	N/m	260.46	Surface Tension Measurements of Difluoromethane(R-32) and the Binary Mixture Difluoromethane(R-32) + 1,1,1,2-tetrafluoroethane(R-134a) from (253 to 333) K
srf	0.01	N/m	265.04	Surface Tension Measurements of Difluoromethane(R-32) and the Binary Mixture Difluoromethane(R-32) + 1,1,1,2-tetrafluoroethane(R-134a) from (253 to 333) K

srf	0.01	N/m	265.04	Surface Tension Measurements of Difluoromethane(R-32) and the Binary Mixture Difluoromethane(R-32) + 1,1,1,2-tetrafluoroethane(R-134a) from (253 to 333) K
srf	0.01	N/m	268.75	Surface Tension Measurements of Difluoromethane(R-32) and the Binary Mixture Difluoromethane(R-32) + 1,1,1,2-tetrafluoroethane(R-134a) from (253 to 333) K
srf	0.01	N/m	268.75	Surface Tension Measurements of Difluoromethane(R-32) and the Binary Mixture Difluoromethane(R-32) + 1,1,1,2-tetrafluoroethane(R-134a) from (253 to 333) K
srf	0.01	N/m	273.28	Surface Tension Measurements of Difluoromethane(R-32) and the Binary Mixture Difluoromethane(R-32) + 1,1,1,2-tetrafluoroethane(R-134a) from (253 to 333) K
srf	0.01	N/m	273.28	Surface Tension Measurements of Difluoromethane(R-32) and the Binary Mixture Difluoromethane(R-32) + 1,1,1,2-tetrafluoroethane(R-134a) from (253 to 333) K
srf	0.01	N/m	276.85	Surface Tension Measurements of Difluoromethane(R-32) and the Binary Mixture Difluoromethane(R-32) + 1,1,1,2-tetrafluoroethane(R-134a) from (253 to 333) K

srf	0.01	N/m	294.05	Surface Tension Measurements of Difluoromethane(R-32) and the Binary Mixture Difluoromethane(R-32) + 1,1,1,2-tetrafluoroethane(R-134a) from (253 to 333) K
srf	0.01	N/m	281.50	Surface Tension Measurements of Difluoromethane(R-32) and the Binary Mixture Difluoromethane(R-32) + 1,1,1,2-tetrafluoroethane(R-134a) from (253 to 333) K
srf	0.01	N/m	281.50	Surface Tension Measurements of Difluoromethane(R-32) and the Binary Mixture Difluoromethane(R-32) + 1,1,1,2-tetrafluoroethane(R-134a) from (253 to 333) K
srf	0.01	N/m	285.79	Surface Tension Measurements of Difluoromethane(R-32) and the Binary Mixture Difluoromethane(R-32) + 1,1,1,2-tetrafluoroethane(R-134a) from (253 to 333) K
srf	0.01	N/m	252.74	Surface Tension Measurements of Difluoromethane(R-32) and the Binary Mixture Difluoromethane(R-32) + 1,1,1,2-tetrafluoroethane(R-134a) from (253 to 333) K
srf	0.01	N/m	285.79	Surface Tension Measurements of Difluoromethane(R-32) and the Binary Mixture Difluoromethane(R-32) + 1,1,1,2-tetrafluoroethane(R-134a) from (253 to 333) K

srf	0.00	N/m	332.00	Surface Tension Measurements of Difluoromethane(R-32) and the Binary Mixture Difluoromethane(R-32) + 1,1,1,2-tetrafluoroethane(R-134a) from (253 to 333) K
srf	0.01	N/m	297.58	Surface Tension Measurements of Difluoromethane(R-32) and the Binary Mixture Difluoromethane(R-32) + 1,1,1,2-tetrafluoroethane(R-134a) from (253 to 333) K
srf	0.01	N/m	297.58	Surface Tension Measurements of Difluoromethane(R-32) and the Binary Mixture Difluoromethane(R-32) + 1,1,1,2-tetrafluoroethane(R-134a) from (253 to 333) K
srf	0.01	N/m	301.42	Surface Tension Measurements of Difluoromethane(R-32) and the Binary Mixture Difluoromethane(R-32) + 1,1,1,2-tetrafluoroethane(R-134a) from (253 to 333) K
srf	0.01	N/m	301.42	Surface Tension Measurements of Difluoromethane(R-32) and the Binary Mixture Difluoromethane(R-32) + 1,1,1,2-tetrafluoroethane(R-134a) from (253 to 333) K
srf	0.01	N/m	252.74	Surface Tension Measurements of Difluoromethane(R-32) and the Binary Mixture Difluoromethane(R-32) + 1,1,1,2-tetrafluoroethane(R-134a) from (253 to 333) K

srf	0.00	N/m	332.00	Surface Tension Measurements of Difluoromethane(R-32) and the Binary Mixture Difluoromethane(R-32) + 1,1,1,2-tetrafluoroethane(R-134a) from (253 to 333) K
srf	0.00	N/m	327.23	Surface Tension Measurements of Difluoromethane(R-32) and the Binary Mixture Difluoromethane(R-32) + 1,1,1,2-tetrafluoroethane(R-134a) from (253 to 333) K
srf	0.00	N/m	327.23	Surface Tension Measurements of Difluoromethane(R-32) and the Binary Mixture Difluoromethane(R-32) + 1,1,1,2-tetrafluoroethane(R-134a) from (253 to 333) K
srf	0.00	N/m	323.29	Surface Tension Measurements of Difluoromethane(R-32) and the Binary Mixture Difluoromethane(R-32) + 1,1,1,2-tetrafluoroethane(R-134a) from (253 to 333) K
srf	0.00	N/m	323.29	Surface Tension Measurements of Difluoromethane(R-32) and the Binary Mixture Difluoromethane(R-32) + 1,1,1,2-tetrafluoroethane(R-134a) from (253 to 333) K
srf	0.00	N/m	319.84	Surface Tension Measurements of Difluoromethane(R-32) and the Binary Mixture Difluoromethane(R-32) + 1,1,1,2-tetrafluoroethane(R-134a) from (253 to 333) K

srf	0.00	N/m	319.84	Surface Tension Measurements of Difluoromethane(R-32) and the Binary Mixture Difluoromethane(R-32) + 1,1,1,2-tetrafluoroethane(R-134a) from (253 to 333) K
srf	0.00	N/m	319.38	Surface Tension Measurements of Difluoromethane(R-32) and the Binary Mixture Difluoromethane(R-32) + 1,1,1,2-tetrafluoroethane(R-134a) from (253 to 333) K
srf	0.00	N/m	319.38	Surface Tension Measurements of Difluoromethane(R-32) and the Binary Mixture Difluoromethane(R-32) + 1,1,1,2-tetrafluoroethane(R-134a) from (253 to 333) K
srf	0.00	N/m	315.58	Surface Tension Measurements of Difluoromethane(R-32) and the Binary Mixture Difluoromethane(R-32) + 1,1,1,2-tetrafluoroethane(R-134a) from (253 to 333) K
srf	0.00	N/m	315.58	Surface Tension Measurements of Difluoromethane(R-32) and the Binary Mixture Difluoromethane(R-32) + 1,1,1,2-tetrafluoroethane(R-134a) from (253 to 333) K
srf	0.01	N/m	309.50	Surface Tension Measurements of Difluoromethane(R-32) and the Binary Mixture Difluoromethane(R-32) + 1,1,1,2-tetrafluoroethane(R-134a) from (253 to 333) K

srf	0.01	N/m	309.50	Surface Tension Measurements of Difluoromethane(R-32) and the Binary Mixture Difluoromethane(R-32) + 1,1,1,2-tetrafluoroethane(R-134a) from (253 to 333) K
srf	0.01	N/m	305.30	Surface Tension Measurements of Difluoromethane(R-32) and the Binary Mixture Difluoromethane(R-32) + 1,1,1,2-tetrafluoroethane(R-134a) from (253 to 333) K

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/T + C*\ln(T) + D*T^2$
Coeff. A	7.88243e+01
Coeff. B	-4.29952e+03
Coeff. C	-1.03475e+01
Coeff. D	2.22293e-05
Temperature range (K), min.	137.00
Temperature range (K), max.	351.60

Datasets

Mass density, kg/m3

Temperature, K - Fluid (supercritical or subcritical phases)	Pressure, kPa - Fluid (supercritical or subcritical phases)	Mass density, kg/m3 - Fluid (supercritical or subcritical phases)
313.16	3353.70	900.17
316.15	4967.10	899.97
319.15	6571.40	899.77

322.15	8162.40	899.57
328.16	11399.70	899.19
334.15	14753.40	898.82
337.15	16580.50	898.63

Reference

<https://www.doi.org/10.1007/s10765-005-8591-6>

Temperature, K	Pressure, kPa	Mass density, kg/m3
283.54	3000.00	1027.1
283.54	5000.00	1035.42
283.55	10000.00	1054.01
283.55	15000.00	1070.11
283.55	20000.00	1084.45
283.55	25000.00	1097.41
283.56	30000.00	1109.29
283.56	40000.00	1130.47
283.56	60000.00	1165.73
283.56	80000.00	1194.77
283.55	100000.00	1219.47
293.49	3000.00	989.19
293.49	5000.00	999.53
293.49	10000.00	1021.69
293.48	15000.00	1040.44
293.49	20000.00	1056.75
293.49	25000.00	1071.31
293.49	30000.00	1084.43
293.49	40000.00	1107.67
293.49	60000.00	1145.64
293.50	80000.00	1176.55
293.50	100000.00	1202.49
303.43	3000.00	946.84
303.43	5000.00	960.0
303.42	10000.00	987.14
303.42	15000.00	1009.19
303.43	20000.00	1027.86
303.43	25000.00	1044.2
303.44	30000.00	1058.82
303.43	40000.00	1084.3
303.44	60000.00	1125.22
303.45	80000.00	1157.85
303.44	100000.00	1185.37
313.35	3000.00	898.97
313.36	5000.00	916.76

313.35	10000.00	951.05
313.36	15000.00	977.36
313.36	20000.00	999.0
313.37	25000.00	1017.48
313.36	30000.00	1033.81
313.36	40000.00	1061.8
313.37	60000.00	1105.9
313.36	80000.00	1140.76
313.36	100000.00	1169.51
323.26	5000.00	864.36
323.25	10000.00	909.88
323.25	15000.00	941.66
323.25	20000.00	966.72
323.25	25000.00	987.67
323.25	30000.00	1005.85
323.25	40000.00	1036.43
323.25	60000.00	1083.93
323.25	80000.00	1120.89
323.25	100000.00	1151.14
333.14	10000.00	865.89
333.14	15000.00	905.11
333.15	20000.00	934.53
333.15	25000.00	958.47
333.15	30000.00	978.86
333.15	40000.00	1012.65
333.15	60000.00	1063.95
333.15	80000.00	1103.15
333.15	100000.00	1134.94
343.00	10000.00	815.42
342.99	15000.00	866.16
343.00	20000.00	901.33
343.00	25000.00	928.7
343.00	30000.00	951.59
343.00	40000.00	988.88
343.01	60000.00	1044.01
343.01	80000.00	1085.29
343.01	100000.00	1118.63

Reference

<https://www.doi.org/10.1016/j.jct.2016.05.013>

Molar heat capacity at constant volume, J/K/mol

Temperature, K - Liquid	Pressure, kPa - Liquid	Molar heat capacity at constant volume, J/K/mol - Liquid
268.15	8268.00	49.4742
268.15	8502.00	48.7979
269.15	9280.00	49.3182
269.15	9512.00	49.6823
270.15	10291.00	49.4742
270.15	10521.00	49.8384
271.15	11302.00	49.4222
271.15	11531.00	49.5263
272.15	12312.00	49.9425
272.15	12421.00	50.5667
272.15	12540.00	49.0581
273.15	13321.00	49.0581
273.15	13429.00	49.7864
273.15	13551.00	50.2546
274.15	14330.00	49.9425
274.15	14438.00	49.6303
274.15	14560.00	49.3702
275.15	15337.00	49.4742
275.15	15444.00	49.8384
275.15	15568.00	49.4742
276.15	16344.00	49.8904
276.15	16452.00	49.8384
276.15	16577.00	49.7344
277.15	17350.00	49.3182
277.15	17457.00	49.6303
277.15	17583.00	49.9945
278.15	18354.00	49.8904
278.15	18462.00	50.2546
278.15	18589.00	49.4742
279.15	19358.00	49.8904
279.15	19465.00	49.7864
279.15	19595.00	50.1505
280.15	20361.00	49.6303
280.15	20468.00	50.2026
280.15	20598.00	49.9945
281.15	21363.00	50.4627
281.15	21470.00	49.6303
281.15	21601.00	49.8904
282.15	22363.00	49.5783
282.15	22472.00	50.2546
282.15	22602.00	50.0465
283.15	23363.00	50.4107

283.15	23473.00	50.1505
283.15	23603.00	49.9425
284.15	24362.00	50.3066
284.15	24472.00	49.9425
284.15	24606.00	50.2546
285.15	25359.00	50.1505
285.15	25470.00	50.5147
285.15	25603.00	50.2546
286.15	26356.00	50.5147
286.15	26466.00	50.6188
286.15	26598.00	50.2026
287.15	27351.00	50.3586
287.15	27461.00	50.2026
287.15	27594.00	50.3586
288.15	28345.00	50.5667
288.15	28454.00	50.6188
288.15	28588.00	50.4107
289.15	5774.00	51.243
289.15	5835.00	49.7864
289.15	29338.00	50.4627
289.15	29446.00	50.7228
289.15	29581.00	51.087
290.15	6570.00	50.6188
290.15	6631.00	50.9309
291.15	7365.00	51.139
291.15	7428.00	51.191
292.15	8161.00	51.243
292.15	8224.00	51.139
293.15	8956.00	51.3991
293.15	9019.00	51.7112
294.15	9752.00	51.6592
294.15	9815.00	50.8268
295.15	10546.00	51.191
295.15	10610.00	51.5552
296.15	11341.00	51.191
296.15	11405.00	51.5032
297.15	12135.00	51.6072
297.15	12199.00	51.3471
298.15	12929.00	51.5032
298.15	12993.00	51.9193
299.15	13723.00	51.6592
299.15	13787.00	51.8153
300.15	14517.00	51.6592
300.15	14581.00	52.0754

301.15	15309.00	52.3355
301.15	15374.00	51.9193
302.15	16102.00	52.0754
302.15	16167.00	52.2315
303.15	16894.00	52.1274
303.15	16960.00	52.4916
304.15	17685.00	52.1274
304.15	17752.00	52.5436
305.15	18476.00	52.7517
305.15	18543.00	52.5956
306.15	19267.00	52.7517
306.15	19335.00	52.8037
307.15	20125.00	52.4916
308.15	20848.00	52.9078
308.15	20915.00	52.8037
309.15	21639.00	52.6997
309.15	21704.00	53.324
310.15	22429.00	52.8558
310.15	22492.00	53.1159
311.15	23217.00	53.1679
311.15	23281.00	53.6881
312.15	24005.00	53.6361
312.15	24068.00	53.7922
313.15	24793.00	53.5321
313.15	24855.00	53.7922
314.15	25579.00	53.7922
314.15	25641.00	53.428
315.15	26364.00	53.5841
315.15	26427.00	54.0003
316.15	27149.00	53.5321
316.15	27212.00	54.6766
317.15	27934.00	54.4165
317.15	27996.00	54.2084
318.15	28719.00	54.1043
318.15	28779.00	54.7806

Reference

<https://www.doi.org/10.1007/s10765-008-0535-5>

Mass density, kg/m3

Temperature, K - Gas

Pressure, kPa - Gas

Mass density, kg/m3 - Gas

254.08	382.25	10.3656
254.09	313.90	8.3508
254.09	214.16	5.5491
254.10	104.12	2.6275
263.88	571.82	15.4369
263.88	506.07	13.4247
263.88	401.96	10.3885
263.88	306.27	7.74
263.88	204.78	5.0609
263.88	107.72	2.6075
263.89	71.43	1.7159
273.74	824.10	22.3391
273.73	817.04	22.1108
273.74	771.81	20.6433
273.73	711.85	18.7582
273.74	614.63	15.8288
273.73	513.88	12.9426
273.74	416.77	10.2856
273.73	312.85	7.5636
273.74	224.38	5.3352
273.73	101.73	2.3681
283.54	1013.18	26.9253
283.54	1013.16	26.9235
283.55	911.64	23.6652
283.53	812.63	20.6499
283.52	710.61	17.6856
283.52	614.51	15.0118
283.54	502.33	12.0197
283.52	412.99	9.7269
283.53	312.42	7.2368
283.53	213.32	4.8632
283.53	101.75	2.2806
293.33	1397.32	37.8678
293.33	1265.09	33.2531
293.34	1161.47	29.864
293.34	1066.35	26.9025
293.34	968.81	23.9856
293.34	866.25	21.0499
293.34	760.28	18.1362
293.32	656.65	15.3945
293.32	546.17	12.5808
293.32	432.29	9.7863
293.37	323.39	7.2059
293.38	219.26	4.8156

293.32	107.46	2.3235
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Reference

<https://www.doi.org/10.1016/j.jct.2014.06.023>

Temperature, K	Pressure, kPa	Mass density, kg/m3
313.15	201.80	4.12
313.15	201.90	4.121
313.15	490.80	10.342
313.15	791.00	17.277
313.15	996.60	22.355
313.15	1203.30	27.77
313.15	1396.50	33.159
313.15	1602.90	39.331
313.15	1801.80	45.76
313.15	1801.90	45.748
313.15	1998.10	52.687
313.15	2103.60	56.702
313.15	2201.50	60.637
313.15	2251.00	62.72
313.15	2298.10	64.762
313.15	2355.70	67.348
313.15	2355.80	67.343
313.15	2402.70	69.541
313.15	2403.00	69.545
313.15	2435.00	71.084
313.15	2435.10	71.095
313.15	2450.50	71.838
313.15	2450.60	71.855
313.15	2472.00	72.903
313.15	490.80	10.336
313.15	791.00	17.275
313.15	996.60	22.349
313.15	1203.30	27.759
313.15	1396.50	33.148
313.15	1602.90	39.322
313.15	1998.10	52.676
313.15	2103.60	56.692
313.15	2201.50	60.629
313.15	2251.00	62.711
313.15	2298.10	64.748
313.15	2472.00	72.918
323.15	207.90	4.101
323.15	499.20	10.125

323.15	801.10	16.793
323.15	801.20	16.794
323.15	998.30	21.387
323.15	1095.20	23.732
323.15	1200.30	26.337
323.15	1200.40	26.341
323.15	1397.40	31.424
323.15	1590.60	36.664
323.15	1797.20	42.644
323.15	2004.90	49.091
323.15	2200.60	55.637
323.15	2402.30	62.99
323.15	2596.10	70.738
323.15	2699.00	75.19
323.15	2699.10	75.207
323.15	2799.00	79.805
323.15	2802.90	80.005
323.15	2900.60	84.82
323.15	2901.20	84.882
323.15	2947.00	87.258
323.15	2960.30	87.971
323.15	3002.20	90.24
323.15	3002.30	90.261
323.15	3010.20	90.716
323.15	3041.10	92.478
323.15	3041.20	92.495
323.15	3074.60	94.445
323.15	3099.50	95.942
323.15	3125.50	97.558
323.15	3125.60	97.549
323.15	3134.20	98.084
323.15	207.90	4.103
323.15	499.20	10.143
323.15	998.30	21.393
323.15	1397.40	31.416
323.15	1590.60	36.67
323.15	1797.20	42.658
323.15	2004.90	49.105
323.15	2200.60	55.653
323.15	2402.30	62.978
323.15	2596.10	70.733
323.15	2799.00	79.816
323.15	2802.90	80.017
323.15	2900.60	84.839

[illegible]

KDB Vapor Pressure Data:

<https://www.thermo.com/research/kdb/hcprop/showprop.php?cmpid=1527>

An experimental study of PVTx properties in the gas phase for binary mixtures of HFC-125 and HFC-32: the Binary Mixture Difluoromethane (HFC-32) + Pentafluoroethane (HFC-125) of an Alternative Refrigerant:

<https://www.doi.org/10.1016/j.fluid.2006.03.003>

<https://www.doi.org/10.1021/je700011a>

Legend

af:	Acentric Factor
affp:	Proton affinity
basg:	Gas basicity
chg:	Standard gas enthalpy of combustion
cpg:	Ideal gas heat capacity
cpl:	Liquid phase heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hfust:	Enthalpy of fusion at a given temperature
hvapt:	Enthalpy of vaporization at a given temperature
ie:	Ionization energy
kvisc:	Kinematic viscosity
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
pvap:	Vapor pressure
rhoc:	Critical density
rhog:	Gas Density
rhof:	Liquid Density
rinpol:	Non-polar retention indices
srf:	Surface Tension
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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