

cpg	489.85	J/mol×K	430.96	Joback Method
hvapt	32.80	kJ/mol	455.50	NIST Webbook
kvisc	0.0000010	m ² /s	298.15	Viscosities of Liquid Fluorocompounds
kvisc	0.0000009	m ² /s	303.15	Viscosities of Liquid Fluorocompounds
kvisc	0.0000008	m ² /s	308.15	Viscosities of Liquid Fluorocompounds
kvisc	0.0000008	m ² /s	313.15	Viscosities of Liquid Fluorocompounds
kvisc	0.0000007	m ² /s	318.15	Viscosities of Liquid Fluorocompounds
pvap	0.94	kPa	293.18	Densities and Vapor Pressures of Highly Fluorinated Compounds
pvap	1.29	kPa	298.11	Densities and Vapor Pressures of Highly Fluorinated Compounds
pvap	1.71	kPa	303.10	Densities and Vapor Pressures of Highly Fluorinated Compounds
pvap	2.32	kPa	308.19	Densities and Vapor Pressures of Highly Fluorinated Compounds
pvap	3.06	kPa	313.17	Densities and Vapor Pressures of Highly Fluorinated Compounds
pvap	3.99	kPa	318.22	Densities and Vapor Pressures of Highly Fluorinated Compounds
pvap	5.14	kPa	323.15	Densities and Vapor Pressures of Highly Fluorinated Compounds
pvap	6.59	kPa	328.15	Densities and Vapor Pressures of Highly Fluorinated Compounds

pvap	0.68	kPa	288.18	Densities and Vapor Pressures of Highly Fluorinated Compounds
pvap	8.42	kPa	333.15	Densities and Vapor Pressures of Highly Fluorinated Compounds
rho1	1798.00	kg/m3	293.15	Binary vapour-liquid equilibrium data for C7 and C9 straight-chain perfluorocarbons with ethylene
srf	0.01	N/m	319.15	Surface Tension of Liquid Fluorocompounds
srf	0.01	N/m	308.75	Surface Tension of Liquid Fluorocompounds
srf	0.01	N/m	303.45	Surface Tension of Liquid Fluorocompounds
srf	0.02	N/m	298.25	Surface Tension of Liquid Fluorocompounds
srf	0.02	N/m	292.75	Surface Tension of Liquid Fluorocompounds
srf	0.02	N/m	287.15	Surface Tension of Liquid Fluorocompounds
srf	0.01	N/m	313.85	Surface Tension of Liquid Fluorocompounds

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.53201e+01
Coeff. B	-3.71064e+03
Coeff. C	-5.19190e+01
Temperature range (K), min.	298.76
Temperature range (K), max.	422.66

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/T + C \cdot \ln(T) + D \cdot T^2$
Coeff. A	-2.42081e+01
Coeff. B	-1.89818e+03
Coeff. C	5.70483e+00
Coeff. D	-1.95990e-06
Temperature range (K), min.	387.15
Temperature range (K), max.	523.15

Sources

Densities and Vapor Pressures of Highly Fluorinated Compounds: KDB Vapor Pressure Data:	https://www.doi.org/10.1021/je050056e https://www.therich.org/research/kdb/hcprop/showprop.php?cmpid=1647
Viscosities of Liquid Fluorocompounds: Crippen Method:	https://www.doi.org/10.1021/je700632z https://www.chemeo.com/doc/models/crippen_log10ws
KDB:	https://www.therich.org/files/research/kdb/mol/mol1647.mol
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307i
Perfluoroalkanes and perfluoroalkylalkane surfactants in liquid-liquid equilibrium of (1,1,1,2,2,2-hexafluoroethane + 1,1,1,2,2,2-hexafluoroethane) mixtures. data for C7 and C9 straight-chain perfluoroalkanes with ethene:	https://www.doi.org/10.1016/j.fluid.2011.02.020 https://www.doi.org/10.1016/j.fluid.2006.10.025 https://www.doi.org/10.1016/j.fluid.2016.08.015 https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure
Pressure: Joback Method:	https://en.wikipedia.org/wiki/Joback_method
Surface Tension of Liquid Fluorocompounds: McGowan Method:	https://www.doi.org/10.1021/je060199g http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C375962&Units=SI

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvac:	Enthalpy of vaporization at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
kvisc:	Kinematic viscosity
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient

mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
pvap:	Vapor pressure
rho:	Liquid Density
srf:	Surface Tension
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.cheméo.com/cid/57-154-8/nonane-eicosafuoro.pdf>

Generated by Cheméo on 2024-04-17 02:56:07.475495458 +0000 UTC m=+15611816.396072772.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.