4-Nonanol, 2,6,8-trimethyl-

Other names:	2,4,8-Trimethyl-6-nonanol
	2,6,8-Trimethyl-4-nonanol
	2,6,8-Trimethylnonanol-4
	2,6,8-trimethylnonan-4-ol
	4-Hydroxy-2,6,8-trimethylnonane
Inchi:	InChI=1S/C12H26O/c1-9(2)6-11(5)8-12(13)7-10(3)4/h9-13H,6-8H2,1-5H3
InchiKey:	LFEHSRSSAGQWNI-UHFFFAOYSA-N
Formula:	C12H26O
SMILES:	CC(C)CC(C)CC(O)CC(C)C
Mol. weight [g/mol]:	186.33
CAS:	123-17-1

Physical Properties

Property code	Value	Unit	Source
gf	-96.42	kJ/mol	Joback Method
hf	-464.36	kJ/mol	Joback Method
hfus	16.83	kJ/mol	Joback Method
hvap	57.43	kJ/mol	Joback Method
log10ws	-3.50		Crippen Method
logp	3.466		Crippen Method
mcvol	185.810	ml/mol	McGowan Method
pc	1982.35	kPa	Joback Method
tb	498.55	K	NIST Webbook
tb	498.65	K	NIST Webbook
tc	732.65	K	Joback Method
tf	225.82	K	Joback Method
vc	0.703	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	479.59	J/mol×K	564.38	Joback Method
cpg	495.41	J/mol×K	592.43	Joback Method
cpg	510.55	J/mol×K	620.47	Joback Method

cpg	525.05	J/mol×K	648.52	Joback Method
cpg	538.91	J/mol×K	676.56	Joback Method
cpg	552.17	J/mol×K	704.61	Joback Method
cpg	564.82	J/mol×K	732.65	Joback Method
dvisc	0.4438389	Pa×s	225.82	Joback Method
dvisc	0.0236653	Pa×s	282.25	Joback Method
dvisc	0.0033514	Pa×s	338.67	Joback Method
dvisc	0.0008295	Pa×s	395.10	Joback Method
dvisc	0.0002910	Pa×s	451.53	Joback Method
dvisc	0.0001289	Pa×s	507.95	Joback Method
dvisc	0.0000672	Pa×s	564.38	Joback Method

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	1.64058e+01
Coeff. B	-4.93242e+03
Coeff. C	-7.97050e+01
Temperature range (K), min.	385.72
Temperature range (K), max.	524.29

Sources

Joback Method: https://en.wikipedia.org/wiki/Joback_method

McGowan Method: http://link.springer.com/article/10.1007/BF02311772

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C123171&Units=SI

The Yaws Handbook of Vapor Pressure: https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cpg: Ideal gas heat capacity

dvisc: Dynamic viscosity

gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
pvap:	Vapor pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume