

9-Tetradecen-1-ol

Inchi:	InChI=1S/C14H28O/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15/h5-6,15H,2-4,7-14H2,1H3
InchiKey:	GSAAJQNJNPBBSX-UHFFFAOYSA-N
Formula:	C14H28O
SMILES:	CCCC=CCCCCCCCO
Mol. weight [g/mol]:	212.37
CAS:	---

Physical Properties

Property code	Value	Unit	Source
gf	10.40	kJ/mol	Joback Method
hf	-367.30	kJ/mol	Joback Method
hfus	36.31	kJ/mol	Joback Method
hvap	63.39	kJ/mol	Joback Method
log10ws	-4.80		Crippen Method
logp	4.456		Crippen Method
mvol	209.690	ml/mol	McGowan Method
pc	1710.36	kPa	Joback Method
rinpol	1618.00		NIST Webbook
tb	616.06	K	Joback Method
tc	778.82	K	Joback Method
tf	303.28	K	Joback Method
vc	0.819	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	562.60	J/molxK	616.06	Joback Method
cpg	578.00	J/molxK	643.19	Joback Method
cpg	592.76	J/molxK	670.31	Joback Method
cpg	606.89	J/molxK	697.44	Joback Method
cpg	620.41	J/molxK	724.57	Joback Method
cpg	633.37	J/molxK	751.70	Joback Method
cpg	645.78	J/molxK	778.82	Joback Method
dvisc	0.0131572	Paxs	303.28	Joback Method

dvisc	0.0026357	Paxs	355.41	Joback Method
dvisc	0.0007966	Paxs	407.54	Joback Method
dvisc	0.0003158	Paxs	459.67	Joback Method
dvisc	0.0001512	Paxs	511.80	Joback Method
dvisc	0.0000829	Paxs	563.93	Joback Method
dvisc	0.0000504	Paxs	616.06	Joback Method

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.45673e+01
Coeff. B	-4.87668e+03
Coeff. C	-1.00208e+02
Temperature range (K), min.	441.72
Temperature range (K), max.	627.09

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R151614&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/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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
rinpola:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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