

cis-9-Tetradecen-1-ol

Other names:	(9Z)-9-Tetradecen-1-ol (Z)-9-Tetradecen-1-ol (Z)-tetradec-9-enol 9-Tetradecen-1-ol, (Z)- 9-Tetradecenol, Z
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/b6
InchiKey:	GSAAJQNJNPBBSX-WAYWQWQTSA-N
Formula:	C14H28O
SMILES:	CCCCC=CCCCCCCCCO
Mol. weight [g/mol]:	212.37
CAS:	35153-15-2

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	100.60	kJ/mol	NIST Webbook
log10ws	-4.80		Crippen Method
logp	4.456		Crippen Method
mcvol	209.690	ml/mol	McGowan Method
pc	1710.36	kPa	Joback Method
rinpol	1667.00		NIST Webbook
rinpol	1667.00		NIST Webbook
ripol	2215.00		NIST Webbook
ripol	2215.00		NIST Webbook
tb	616.06	K	Joback Method
tc	778.82	K	Joback Method
tf	303.28	K	Joback Method
vc	0.819	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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cpg	562.60	J/mol×K	616.06	Joback Method
cpg	578.00	J/mol×K	643.19	Joback Method
cpg	592.76	J/mol×K	670.31	Joback Method
cpg	606.89	J/mol×K	697.44	Joback Method
cpg	620.41	J/mol×K	724.57	Joback Method
cpg	633.37	J/mol×K	751.70	Joback Method
cpg	645.78	J/mol×K	778.82	Joback Method
dvisc	0.0131572	Pa×s	303.28	Joback Method
dvisc	0.0026357	Pa×s	355.41	Joback Method
dvisc	0.0007966	Pa×s	407.54	Joback Method
dvisc	0.0003158	Pa×s	459.67	Joback Method
dvisc	0.0001512	Pa×s	511.80	Joback Method
dvisc	0.0000829	Pa×s	563.93	Joback Method
dvisc	0.0000504	Pa×s	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

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
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=C35153152&Units=SI
The Yaws Handbook of Vapor Pressure:	https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure

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
ripola:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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