

13-tetradecenol

Other names:	13-Tetradecen-1-ol
Inchi:	InChI=1S/C14H28O/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15/h2,15H,1,3-14H2
InchiKey:	GXBLITCOLKGJDG-UHFFFAOYSA-N
Formula:	C14H28O
SMILES:	C=CCCCCCCCCCCCCO
Mol. weight [g/mol]:	212.37
CAS:	---

Physical Properties

Property code	Value	Unit	Source
gf	18.02	kJ/mol	Joback Method
hf	-359.09	kJ/mol	Joback Method
hfus	34.82	kJ/mol	Joback Method
hvap	62.77	kJ/mol	Joback Method
log10ws	-4.80		Crippen Method
logp	4.456		Crippen Method
mcvol	209.690	ml/mol	McGowan Method
pc	1696.30	kPa	Joback Method
rinpol	1670.00		NIST Webbook
rinpol	1670.00		NIST Webbook
ripol	2231.00		NIST Webbook
ripol	2231.00		NIST Webbook
tb	608.58	K	Joback Method
tc	768.38	K	Joback Method
tf	306.60	K	Joback Method
vc	0.820	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	560.86	J/mol×K	608.58	Joback Method
cpg	576.20	J/mol×K	635.21	Joback Method
cpg	590.90	J/mol×K	661.85	Joback Method
cpg	605.00	J/mol×K	688.48	Joback Method

cpg	618.51	J/mol×K	715.11	Joback Method
cpg	631.45	J/mol×K	741.75	Joback Method
cpg	643.85	J/mol×K	768.38	Joback Method
dvisc	0.0127590	Paxs	306.60	Joback Method
dvisc	0.0028188	Paxs	356.93	Joback Method
dvisc	0.0009045	Paxs	407.26	Joback Method
dvisc	0.0003727	Paxs	457.59	Joback Method
dvisc	0.0001830	Paxs	507.92	Joback Method
dvisc	0.0001022	Paxs	558.25	Joback Method
dvisc	0.0000628	Paxs	608.58	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

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R219542&Units=SI
The Yaws Handbook of Vapor Pressure: Crippen Method:	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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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

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