

11-methyl-7-tridecen-1-ol

Inchi:	InChI=1S/C14H28O/c1-3-14(2)12-10-8-6-4-5-7-9-11-13-15/h6,8,14-15H,3-5,7,9-13H2,1-
InchiKey:	OSKGVVRBLOSXPX-SOFGYWHQSA-N
Formula:	C14H28O
SMILES:	CCC(C)CCC=CCCCCCCO
Mol. weight [g/mol]:	212.37
CAS:	---

Physical Properties

Property code	Value	Unit	Source
gf	7.96	kJ/mol	Joback Method
hf	-372.58	kJ/mol	Joback Method
hfus	32.78	kJ/mol	Joback Method
hvap	63.01	kJ/mol	Joback Method
log10ws	-4.56		Crippen Method
logp	4.312		Crippen Method
mvol	209.690	ml/mol	McGowan Method
pc	1721.73	kPa	Joback Method
ripol	2210.00		NIST Webbook
ripol	2210.00		NIST Webbook
tb	615.62	K	Joback Method
tc	780.63	K	Joback Method
tf	288.28	K	Joback Method
vc	0.812	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	562.98	J/molxK	615.62	Joback Method
cpg	578.64	J/molxK	643.12	Joback Method
cpg	593.62	J/molxK	670.62	Joback Method
cpg	607.96	J/molxK	698.13	Joback Method
cpg	621.67	J/molxK	725.63	Joback Method
cpg	634.79	J/molxK	753.13	Joback Method
cpg	647.34	J/molxK	780.63	Joback Method

dvisc	0.0232089	Paxs	288.28	Joback Method
dvisc	0.0036273	Paxs	342.84	Joback Method
dvisc	0.0009437	Paxs	397.39	Joback Method
dvisc	0.0003398	Paxs	451.95	Joback Method
dvisc	0.0001525	Paxs	506.51	Joback Method
dvisc	0.0000800	Paxs	561.06	Joback Method
dvisc	0.0000470	Paxs	615.62	Joback Method

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.39149e+01
Coeff. B	-4.58276e+03
Coeff. C	-9.74280e+01
Temperature range (K), min.	433.72
Temperature range (K), max.	630.09

Sources

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/ci990307l>

Joback 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=R485888&Units=SI>

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

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