

Vinyl lauryl ether

Other names:	Lauryl vinyl ether Dodecane, 1-(ethenyloxy)- 1-(vinylloxy)dodecane
Inchi:	InChI=1S/C14H28O/c1-3-5-6-7-8-9-10-11-12-13-14-15-4-2/h4H,2-3,5-14H2,1H3
InchiKey:	LAYAKLSFVAPMEL-UHFFFAOYSA-N
Formula:	C14H28O
SMILES:	C=COCCCCCCCCCCCCC
Mol. weight [g/mol]:	212.37
CAS:	765-14-0

Physical Properties

Property code	Value	Unit	Source
gf	49.84	kJ/mol	Joback Method
hf	-339.08	kJ/mol	Joback Method
hfus	31.92	kJ/mol	Joback Method
hvap	48.50	kJ/mol	Joback Method
log10ws	-5.12		Crippen Method
logp	5.067		Crippen Method
mcvol	209.690	ml/mol	McGowan Method
pc	1553.67	kPa	Joback Method
tb	538.82	K	Joback Method
tc	701.02	K	Joback Method
tf	268.01	K	Joback Method
vc	0.819	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	516.36	J/mol×K	538.82	Joback Method
cpg	533.69	J/mol×K	565.85	Joback Method
cpg	550.36	J/mol×K	592.89	Joback Method
cpg	566.39	J/mol×K	619.92	Joback Method
cpg	581.78	J/mol×K	646.95	Joback Method
cpg	596.57	J/mol×K	673.98	Joback Method

cpg	610.75	J/mol×K	701.02	Joback Method
dvisc	0.0035912	Paxs	268.01	Joback Method
dvisc	0.0014506	Paxs	313.14	Joback Method
dvisc	0.0007363	Paxs	358.28	Joback Method
dvisc	0.0004349	Paxs	403.41	Joback Method
dvisc	0.0002857	Paxs	448.55	Joback Method
dvisc	0.0002026	Paxs	493.68	Joback Method
dvisc	0.0001522	Paxs	538.82	Joback Method

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=C765140&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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