1-Tetradecene, 4,8,12-trimethyl

Inchi: InChI=1S/C17H34/c1-6-10-16(4)12-9-14-17(5)13-8-11-15(3)7-2/h6,15-17H,1,7-14H2,2-5
InchiKey: ILDVMZDLEYRGKI-UHFFFAOYSA-N
Formula: C17H34
SMILES: C=CCC(C)CCCC(C)CCCC(C)CC
Mol. weight [g/mol]: 238.45

Physical Properties

Property code	Value	Unit	Source
gf	172.78	kJ/mol	Joback Method
hf	-284.62	kJ/mol	Joback Method
hfus	27.94	kJ/mol	Joback Method
hvap	51.60	kJ/mol	Joback Method
log10ws	-6.07		Crippen Method
logp	6.221		Crippen Method
mcvol	246.090	ml/mol	McGowan Method
pc	1290.21	kPa	Joback Method
rinpol	1562.00		NIST Webbook
rinpol	1562.00		NIST Webbook
tb	583.72	K	Joback Method
tc	752.02	K	Joback Method
tf	234.59	K	Joback Method
vc	0.951	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	646.13	J/mol×K	583.72	Joback Method
cpg	739.02	J/mol×K	723.97	Joback Method
cpg	722.08	J/mol×K	695.92	Joback Method
cpg	704.34	J/mol×K	667.87	Joback Method
cpg	685.79	J/mol×K	639.82	Joback Method
cpg	666.39	J/mol×K	611.77	Joback Method
cpg	755.21	J/mol×K	752.02	Joback Method
dvisc	0.0001163	Pa×s	583.72	Joback Method

dvisc	0.0001687	Pa×s	525.53	Joback Method
dvisc	0.0002684	Pa×s	467.34	Joback Method
dvisc	0.0004872	Pa×s	409.15	Joback Method
dvisc	0.0010779	Pa×s	350.97	Joback Method
dvisc	0.0032694	Pa×s	292.78	Joback Method
dvisc	0.0171956	Pa×s	234.59	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R47063&Units=SI
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

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