2-Tridecene, 4,6,8,10-tetramethyl

Inchi: InChI=1S/C17H34/c1-7-9-14(3)11-16(5)13-17(6)12-15(4)10-8-2/h7,9,14-17H,8,10-13H2,1
InchiKey: VJUDBUXGIZBNEB-VQHVLOKHSA-N
Formula: C17H34
SMILES: CC=CC(C)CC(C)CC(C)CC(C)CCC
Mol. weight [g/mol]: 238.45

Physical Properties

Property code	Value	Unit	Source
gf	162.72	kJ/mol	Joback Method
hf	-298.11	kJ/mol	Joback Method
hfus	25.90	kJ/mol	Joback Method
hvap	51.84	kJ/mol	Joback Method
log10ws	-5.83		Crippen Method
logp	6.077		Crippen Method
mcvol	246.090	ml/mol	McGowan Method
pc	1307.06	kPa	Joback Method
rinpol	1440.00		NIST Webbook
rinpol	1509.00		NIST Webbook
rinpol	1440.00		NIST Webbook
tb	590.76	K	Joback Method
tc	765.37	K	Joback Method
tf	216.27	K	Joback Method
vc	0.944	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	649.28	J/mol×K	590.76	Joback Method
cpg	670.08	J/mol×K	619.86	Joback Method
cpg	689.94	J/mol×K	648.96	Joback Method
cpg	708.88	J/mol×K	678.06	Joback Method
cpg	726.96	J/mol×K	707.17	Joback Method
cpg	744.19	J/mol×K	736.27	Joback Method
cpg	760.62	J/mol×K	765.37	Joback Method

dvisc	0.0352161	Pa×s	216.27	Joback Method
dvisc	0.0042644	Pa×s	278.69	Joback Method
dvisc	0.0011182	Pa×s	341.10	Joback Method
dvisc	0.0004436	Pa×s	403.51	Joback Method
dvisc	0.0002255	Pa×s	465.93	Joback Method
dvisc	0.0001345	Pa×s	528.35	Joback Method
dvisc	0.0000894	Pa×s	590.76	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R568017&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

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