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

Inchi: InChI=1S/C15H30/c1-7-8-13(4)10-15(6)11-14(5)9-12(2)3/h7-8,12-15H,9-11H2,1-6H3/b8-
InchiKey: UQMBLBZZNPZWNM-BQYQJAHWSA-N
Formula: C15H30
SMILES: CC=CC(C)CC(C)CC(C)CC(C)C
Mol. weight [g/mol]: 210.40

Physical Properties

Property code	Value	Unit	Source
gf	145.88	kJ/mol	Joback Method
hf	-256.83	kJ/mol	Joback Method
hfus	20.72	kJ/mol	Joback Method
hvap	47.39	kJ/mol	Joback Method
log10ws	-4.99		Crippen Method
logp	5.297		Crippen Method
mcvol	217.910	ml/mol	McGowan Method
pc	1509.33	kPa	Joback Method
rinpol	1290.00		NIST Webbook
tb	545.00	K	Joback Method
tc	722.42	K	Joback Method
tf	193.73	K	Joback Method
vc	0.832	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	541.30	J/mol×K	545.00	Joback Method
cpg	561.33	J/mol×K	574.57	Joback Method
cpg	580.45	J/mol×K	604.14	Joback Method
cpg	598.69	J/mol×K	633.71	Joback Method
cpg	616.08	J/mol×K	663.28	Joback Method
cpg	632.66	J/mol×K	692.85	Joback Method
cpg	648.46	J/mol×K	722.42	Joback Method
dvisc	0.0524060	Pa×s	193.73	Joback Method
dvisc	0.0057115	Pa×s	252.28	Joback Method

dvisc	0.0014347	Pa×s	310.82	Joback Method
dvisc	0.0005584	Pa×s	369.37	Joback Method
dvisc	0.0002814	Pa×s	427.91	Joback Method
dvisc	0.0001672	Pa×s	486.45	Joback Method
dvisc	0.0001111	Pa×s	545.00	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R568359&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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