1-Undecene, 2,6,10-trimethyl

Inchi: InChI=1S/C14H28/c1-12(2)8-6-10-14(5)11-7-9-13(3)4/h13-14H,1,6-11H2,2-5H3
InchiKey: UGLLTXQVKUBCQI-UHFFFAOYSA-N
Formula: C14H28
SMILES: C=C(C)CCCC(C)CCCC(C)C
Mol. weight [g/mol]: 196.37

Physical Properties

Property code	Value	Unit	Source
gf	141.41	kJ/mol	Joback Method
hf	-227.21	kJ/mol	Joback Method
hfus	22.38	kJ/mol	Joback Method
hvap	45.39	kJ/mol	Joback Method
log10ws	-5.05		Crippen Method
logp	5.195		Crippen Method
mcvol	203.820	ml/mol	McGowan Method
pc	1601.28	kPa	Joback Method
rinpol	1295.00		NIST Webbook
rinpol	1295.00		NIST Webbook
tb	515.40	K	Joback Method
tc	686.46	K	Joback Method
tf	201.82	K	Joback Method
vc	0.789	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	486.71	J/mol×K	515.40	Joback Method
cpg	505.43	J/mol×K	543.91	Joback Method
cpg	523.36	J/mol×K	572.42	Joback Method
cpg	540.53	J/mol×K	600.93	Joback Method
cpg	556.95	J/mol×K	629.44	Joback Method
cpg	572.66	J/mol×K	657.95	Joback Method
cpg	587.67	J/mol×K	686.46	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R47148&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
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