2,4,6,8-Tetramethyl-1-undecene, # 2

Other names: 1-Undecene, 2,4,6,8-tetramethyl, # 2
Inchi: InChI=1S/C15H30/c1-7-8-13(4)10-15(6)11-14(5)9-12(2)3/h13-15H,2,7-11H2,1,3-6H3
InchiKey: LBMKCDUBYFXSNQ-UHFFFAOYSA-N
Formula: C15H30
SMILES: C=C(C)CC(C)CC(C)CC(C)CCC
Mol. weight [g/mol]: 210.40

Physical Properties

Property code	Value	Unit	Source
gf	147.39	kJ/mol	Joback Method
hf	-253.13	kJ/mol	Joback Method
hfus	21.45	kJ/mol	Joback Method
hvap	47.23	kJ/mol	Joback Method
log10ws	-5.23		Crippen Method
logp	5.441		Crippen Method
mcvol	217.910	ml/mol	McGowan Method
pc	1494.19	kPa	Joback Method
rinpol	1321.00		NIST Webbook
rinpol	1321.00		NIST Webbook
rinpol	1285.00		NIST Webbook
tb	537.84	K	Joback Method
tc	710.83	K	Joback Method
tf	198.09	K	Joback Method
vc	0.840	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	538.31	J/mol×K	537.84	Joback Method
cpg	557.98	J/mol×K	566.67	Joback Method
cpg	576.81	J/mol×K	595.50	Joback Method
cpg	594.80	J/mol×K	624.34	Joback Method
cpg	612.00	J/mol×K	653.17	Joback Method
cpg	628.43	J/mol×K	682.00	Joback Method

cpg	644.11	J/mol×K	710.83	Joback Method

Sources

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=R529616&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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