1-Nonene, 2,4,6,8-tetramethyl

Inchi: InChI=1S/C13H26/c1-10(2)7-12(5)9-13(6)8-11(3)4/h11-13H,1,7-9H2,2-6H3
InchiKey: BFNVYURBIQQOLY-UHFFFAOYSA-N
Formula: C13H26
SMILES: C=C(C)CC(C)CC(C)CC(C)C
Mol. weight [g/mol]: 182.35

Physical Properties

Property code	Value	Unit	Source
gf	130.55	kJ/mol	Joback Method
hf	-211.85	kJ/mol	Joback Method
hfus	16.27	kJ/mol	Joback Method
hvap	42.78	kJ/mol	Joback Method
log10ws	-4.39		Crippen Method
logp	4.661		Crippen Method
mcvol	189.730	ml/mol	McGowan Method
pc	1743.37	kPa	Joback Method
rinpol	1132.00		NIST Webbook
tb	492.08	K	Joback Method
tc	667.99	K	Joback Method
tf	175.55	K	Joback Method
vc	0.728	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	437.10	J/mol×K	492.08	Joback Method
cpg	455.65	J/mol×K	521.40	Joback Method
cpg	473.41	J/mol×K	550.72	Joback Method
cpg	490.38	J/mol×K	580.03	Joback Method
cpg	506.60	J/mol×K	609.35	Joback Method
cpg	522.10	J/mol×K	638.67	Joback Method
cpg	536.89	J/mol×K	667.99	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R568151&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
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