1,8-Nonadiene, 2,7-dimethyl-5-(1-methylethenyl)-

Other names: 1,8-Nonadiene-2,7-dimethyl-5-(methylethenyl)
Inchi: InChI=1S/C14H24/c1-7-13(6)10-14(12(4)5)9-8-11(2)3/h7,13-14H,1-2,4,8-10H2,3,5-6H3
InchiKey: CVKGXABUTXPVHU-UHFFFAOYSA-N
Formula: C14H24
SMILES: C=CC(C)CC(CCC(=C)C)C(=C)C
Mol. weight [g/mol]: 192.34
CAS: 68702-20-5

Physical Properties

Property code	Value	Unit	Source
gf	308.54	kJ/mol	Joback Method
hf	13.86	kJ/mol	Joback Method
hfus	18.51	kJ/mol	Joback Method
hvap	44.13	kJ/mol	Joback Method
log10ws	-4.76		Crippen Method
logp	4.747		Crippen Method
mcvol	195.220	ml/mol	McGowan Method
pc	1721.73	kPa	Joback Method
rinpol	1414.00		NIST Webbook
rinpol	1414.00		NIST Webbook
tb	508.64	K	Joback Method
tc	689.10	K	Joback Method
tf	184.34	K	Joback Method
vc	0.752	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	448.44	J/mol×K	508.64	Joback Method
cpg	466.55	J/mol×K	538.72	Joback Method
cpg	483.80	J/mol×K	568.79	Joback Method
cpg	500.22	J/mol×K	598.87	Joback Method
cpg	515.84	J/mol×K	628.94	Joback Method
cpg	530.70	J/mol×K	659.02	Joback Method

cpg	544.84	J/mol×K	689.10	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=C68702205&Units=SI

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