1,8-Nonadiene, 2,8-dimethyl-

Other names:	2,8-Dimethyl-1,8-nonadiene
	Dimethyl-2,8 nonadiene-1,8
Inchi:	InChI=1S/C11H20/c1-10(2)8-6-5-7-9-11(3)4/h1,3,5-9H2,2,4H3
InchiKey:	CTURECVBUDVEDW-UHFFFAOYSA-N
Formula:	C11H20
SMILES:	C=C(C)CCCCCC(=C)C
Mol. weight [g/mol]:	152.28
CAS:	20054-25-5

Physical Properties

Property code	Value	Unit	Source
gf	200.32	kJ/mol	Joback Method
hf	-39.09	kJ/mol	Joback Method
hfus	19.07	kJ/mol	Joback Method
hvap	38.90	kJ/mol	Joback Method
log10ws	-4.13		Crippen Method
logp	4.089		Crippen Method
mcvol	157.250	ml/mol	McGowan Method
pc	2104.20	kPa	Joback Method
rinpol	1196.00		NIST Webbook
rinpol	1166.00		NIST Webbook
tb	444.20	K	Joback Method
tc	618.37	K	Joback Method
tf	182.29	K	Joback Method
vc	0.616	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	326.10	J/mol×K	444.20	Joback Method
cpg	341.63	J/mol×K	473.23	Joback Method
cpg	356.49	J/mol×K	502.26	Joback Method
cpg	370.70	J/mol×K	531.29	Joback Method
cpg	384.27	J/mol×K	560.32	Joback Method

cpg	397.24	J/mol×K	589.34	Joback Method
cpg	409.63	J/mol×K	618.37	Joback Method

Sources

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=C20054255&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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