

1,9-Decadiene, 3-methyl

Inchi:	InChI=1S/C11H20/c1-4-6-7-8-9-10-11(3)5-2/h4-5,11H,1-2,6-10H2,3H3
InchiKey:	XIKRZIYEDRNBOH-UHFFFAOYSA-N
Formula:	C11H20
SMILES:	C=CCCCCCC(C)C=C
Mol. weight [g/mol]:	152.28

Physical Properties

Property code	Value	Unit	Source
gf	214.98	kJ/mol	Joback Method
hf	-24.79	kJ/mol	Joback Method
hfus	18.16	kJ/mol	Joback Method
hvap	38.35	kJ/mol	Joback Method
log10ws	-3.89		Crippen Method
logp	3.945		Crippen Method
mcvol	157.250	ml/mol	McGowan Method
pc	2100.34	kPa	Joback Method
rinpol	1022.00		NIST Webbook
rinpol	1022.00		NIST Webbook
tb	444.00	K	Joback Method
tc	615.59	K	Joback Method
tf	195.21	K	Joback Method
vc	0.608	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	326.31	J/mol×K	444.00	Joback Method
cpg	397.14	J/mol×K	586.99	Joback Method
cpg	384.21	J/mol×K	558.39	Joback Method
cpg	370.68	J/mol×K	529.79	Joback Method
cpg	356.54	J/mol×K	501.20	Joback Method
cpg	341.75	J/mol×K	472.60	Joback Method
cpg	409.49	J/mol×K	615.59	Joback Method
dvisc	0.0002157	Paxs	444.00	Joback Method

dvisc	0.0002885	Paxs	402.53	Joback Method
dvisc	0.0004126	Paxs	361.07	Joback Method
dvisc	0.0006474	Paxs	319.61	Joback Method
dvisc	0.0011617	Paxs	278.14	Joback Method
dvisc	0.0025590	Paxs	236.67	Joback Method
dvisc	0.0078837	Paxs	195.21	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R1984&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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
dvisc:	Dynamic viscosity
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

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