(Z)-2-Hexene, 4,4-dimethyl

Inchi: InChI=1S/C9H18/c1-5-7-9(3,4)8-6-2/h5,7H,6,8H2,1-4H3/b7-5-
InchiKey: FXGYQSDFKDYNFQ-ALCCZGGFSA-N
Formula: C9H18
SMILES: CC=CC(C)(C)CCC
Mol. weight [g/mol]: 126.24

Physical Properties

Property code	Value	Unit	Source
gf	107.96	kJ/mol	Joback Method
hf	-120.62	kJ/mol	Joback Method
hfus	11.85	kJ/mol	Joback Method
hvap	34.29	kJ/mol	Joback Method
log10ws	-3.20		Crippen Method
logp	3.389		Crippen Method
mcvol	133.370	ml/mol	McGowan Method
pc	2472.73	kPa	Joback Method
rinpol	754.00		NIST Webbook
rinpol	754.00		NIST Webbook
tb	406.25	K	Joback Method
tc	588.59	K	Joback Method
tf	188.53	K	Joback Method
vc	0.508	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	259.57	J/mol×K	406.25	Joback Method
cpg	329.51	J/mol×K	558.20	Joback Method
cpg	317.00	J/mol×K	527.81	Joback Method
cpg	303.79	J/mol×K	497.42	Joback Method
cpg	289.84	J/mol×K	467.03	Joback Method
cpg	275.11	J/mol×K	436.64	Joback Method
cpg	341.36	J/mol×K	588.59	Joback Method
dvisc	0.0002180	Pa×s	406.25	Joback Method

dvisc	0.0003038	Pa×s	369.96	Joback Method
dvisc	0.0004551	Pa×s	333.68	Joback Method
dvisc	0.0007523	Pa×s	297.39	Joback Method
dvisc	0.0014301	Pa×s	261.10	Joback Method
dvisc	0.0033453	Pa×s	224.82	Joback Method
dvisc	0.0108529	Pa×s	188.53	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=R568626&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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