2-Heptene, 4,6-dimethyl

Inchi: InChI=1S/C9H18/c1-5-6-9(4)7-8(2)3/h5-6,8-9H,7H2,1-4H3/b6-5+
InchiKey: TYWQCXCGSWSCFC-AATRIKPKSA-N
Formula: C9H18
SMILES: CC=CC(C)CC(C)C
Mol. weight [g/mol]: 126.24

Physical Properties

Property code	Value	Unit	Source
gf	100.24	kJ/mol	Joback Method
hf	-122.43	kJ/mol	Joback Method
hfus	12.22	kJ/mol	Joback Method
hvap	34.81	kJ/mol	Joback Method
log10ws	-2.96		Crippen Method
logp	3.245		Crippen Method
mcvol	133.370	ml/mol	McGowan Method
pc	2465.36	kPa	Joback Method
rinpol	832.00		NIST Webbook
tb	408.60	K	Joback Method
tc	587.67	K	Joback Method
tf	156.11	K	Joback Method
vc	0.507	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	257.97	J/mol×K	408.60	Joback Method
cpg	272.79	J/mol×K	438.45	Joback Method
cpg	286.94	J/mol×K	468.29	Joback Method
cpg	300.46	J/mol×K	498.14	Joback Method
cpg	313.37	J/mol×K	527.98	Joback Method
cpg	325.70	J/mol×K	557.83	Joback Method
cpg	337.45	J/mol×K	587.67	Joback Method
dvisc	0.0223846	Pa×s	156.11	Joback Method
dvisc	0.0043187	Pa×s	198.19	Joback Method

dvisc	0.0014827	Pa×s	240.27	Joback Method
dvisc	0.0007001	Pa×s	282.36	Joback Method
dvisc	0.0004016	Pa×s	324.44	Joback Method
dvisc	0.0002618	Pa×s	366.52	Joback Method
dvisc	0.0001863	Pa×s	408.60	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R568280&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
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