1-Octene, 2,6-dimethyl-

Other names: 2,6-Dimethyl-1-octene
Inchi: InChI=1S/C10H20/c1-5-10(4)8-6-7-9(2)3/h10H,2,5-8H2,1,3-4H3
InchiKey: OQYDUZQDNJQPBV-UHFFFAOYSA-N
Formula: C10H20
SMILES: C=C(C)CCCC(C)CC
Mol. weight [g/mol]: 140.27
CAS: 6874-29-9

Physical Properties

Property code	Value	Unit	Source
gf	110.17	kJ/mol	Joback Method
hf	-139.37	kJ/mol	Joback Method
hfus	15.54	kJ/mol	Joback Method
hvap	36.88	kJ/mol	Joback Method
log10ws	-3.62		Crippen Method
logp	3.779		Crippen Method
mcvol	147.460	ml/mol	McGowan Method
pc	2218.71	kPa	Joback Method
rinpol	954.00		NIST Webbook
tb	424.32	K	Joback Method
tc	596.75	K	Joback Method
tf	171.74	K	Joback Method
vc	0.572	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	299.04	J/mol×K	424.32	Joback Method
cpg	314.31	J/mol×K	453.06	Joback Method
cpg	328.96	J/mol×K	481.80	Joback Method
cpg	343.01	J/mol×K	510.54	Joback Method
cpg	356.47	J/mol×K	539.27	Joback Method
cpg	369.36	J/mol×K	568.01	Joback Method
cpg	381.70	J/mol×K	596.75	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=C6874299&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