1,6-Octadiene, 2,6-dimethyl-, (Z)-

Other names: 2,6-Dimethyl 1,6(7)-octadiene (cis)
Inchi: InChI=1S/C10H18/c1-5-10(4)8-6-7-9(2)3/h5H,2,6-8H2,1,3-4H3/b10-5-
InchiKey: RKWJBEQYNAAFTH-YHYXMXQVSA-N
Formula: C10H18
SMILES: C=C(C)CCCC(C)=CC
Mol. weight [g/mol]: 138.25
CAS: 6874-34-6

Physical Properties

Property code	Value	Unit	Source
gf	184.28	kJ/mol	Joback Method
hf	-26.66	kJ/mol	Joback Method
hfus	17.96	kJ/mol	Joback Method
hvap	37.30	kJ/mol	Joback Method
log10ws	-3.72		Crippen Method
logp	3.699		Crippen Method
mcvol	143.160	ml/mol	McGowan Method
pc	2324.78	kPa	Joback Method
tb	428.80	K	Joback Method
tc	609.11	K	Joback Method
tf	167.70	K	Joback Method
vc	0.558	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	283.95	J/mol×K	428.80	Joback Method
cpg	298.89	J/mol×K	458.85	Joback Method
cpg	313.14	J/mol×K	488.90	Joback Method
cpg	326.70	J/mol×K	518.96	Joback Method
cpg	339.63	J/mol×K	549.01	Joback Method
cpg	351.93	J/mol×K	579.06	Joback Method
cpg	363.65	J/mol×K	609.11	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C6874346&Units=SI

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume