2-Methyl, 6-methylene 1-octene

Inchi: InChI=1S/C10H18/c1-5-10(4)8-6-7-9(2)3/h2,4-8H2,1,3H3
InchiKey: BCRGTLZJOPRBLG-UHFFFAOYSA-N
Formula: C10H18
SMILES: C=C(C)CCCC(=C)CC
Mol. weight [g/mol]: 138.25
CAS: 6874-33-5

Physical Properties

Property code	Value	Unit	Source
gf	191.90	kJ/mol	Joback Method
hf	-18.45	kJ/mol	Joback Method
hfus	16.48	kJ/mol	Joback Method
hvap	36.67	kJ/mol	Joback Method
log10ws	-3.72		Crippen Method
logp	3.699		Crippen Method
mcvol	143.160	ml/mol	McGowan Method
pc	2302.53	kPa	Joback Method
tb	421.32	K	Joback Method
tc	596.67	K	Joback Method
tf	171.02	K	Joback Method
vc	0.559	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	283.02	J/mol×K	421.32	Joback Method
cpg	297.61	J/mol×K	450.55	Joback Method
cpg	311.58	J/mol×K	479.77	Joback Method
cpg	324.92	J/mol×K	509.00	Joback Method
cpg	337.68	J/mol×K	538.22	Joback Method
cpg	349.86	J/mol×K	567.45	Joback Method
cpg	361.49	J/mol×K	596.67	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C6874335&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

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