6-Octen-1-ol, 7-methyl-3-methylene-

Inchi: InChI=1S/C10H18O/c1-9(2)5-4-6-10(3)7-8-11/h5,11H,3-4,6-8H2,1-2H3
InchiKey: LPYYZHAEKPCIHA-UHFFFAOYSA-N
Formula: C10H18O
SMILES: C=C(CCO)CCC=C(C)C
Mol. weight [g/mol]: 154.25
CAS: 13066-51-8

Physical Properties

Property code	Value	Unit	Source
gf	47.46	kJ/mol	Joback Method
hf	-178.89	kJ/mol	Joback Method
hfus	22.05	kJ/mol	Joback Method
hvap	53.98	kJ/mol	Joback Method
log10ws	-2.98		Crippen Method
logp	2.671		Crippen Method
mcvol	149.030	ml/mol	McGowan Method
pc	2545.61	kPa	Joback Method
rinpol	1169.00		NIST Webbook
rinpol	1221.80		NIST Webbook
ripol	1800.00		NIST Webbook
ripol	1800.00		NIST Webbook
tb	520.98	K	Joback Method
tc	693.94	K	Joback Method
tf	228.52	K	Joback Method
vc	0.578	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	343.72	J/mol×K	520.98	Joback Method
cpg	356.37	J/mol×K	549.81	Joback Method
cpg	368.44	J/mol×K	578.63	Joback Method
cpg	379.93	J/mol×K	607.46	Joback Method
cpg	390.89	J/mol×K	636.29	Joback Method

cpg	401.34	J/mol×K	665.11	Joback Method
cpg	411.31	J/mol×K	693.94	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=C13066518&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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