3-Octen-2-ol, 2-methyl-, (Z)-

Other names: (3Z)-2-Methyl-3-octen-2-ol
(Z)-2-methyl-3-octen-2-ol
(Z)-2-methyloct-3-en-2-ol
Inchi: InChI=1S/C9H18O/c1-4-5-6-7-8-9(2,3)10/h7-8,10H,4-6H2,1-3H3/b8-7-
InchiKey: ACFQKNIZLQUKQA-FPLPWBNLSA-N
Formula: C9H18O
SMILES: CCCCC=CC(C)(C)O
Mol. weight [g/mol]: 142.24
CAS: 18521-07-8

Physical Properties

Property code	Value	Unit	Source
gf	-28.86	kJ/mol	Joback Method
hf	-272.85	kJ/mol	Joback Method
hfus	15.94	kJ/mol	Joback Method
hvap	50.97	kJ/mol	Joback Method
log10ws	-2.82		Crippen Method
logp	2.504		Crippen Method
mcvol	139.240	ml/mol	McGowan Method
pc	2715.50	kPa	Joback Method
tb	498.43	K	Joback Method
tc	673.43	K	Joback Method
tf	249.35	K	Joback Method
vc	0.527	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	320.13	J/mol×K	498.43	Joback Method
cpg	333.11	J/mol×K	527.60	Joback Method
cpg	345.42	J/mol×K	556.76	Joback Method
cpg	357.08	J/mol×K	585.93	Joback Method
cpg	368.14	J/mol×K	615.10	Joback Method
cpg	378.63	J/mol×K	644.27	Joback Method

cpg	388.58	J/mol×K	673.43	Joback Method
dvisc	0.0594151	Pa×s	249.35	Joback Method
dvisc	0.0101092	Pa×s	290.86	Joback Method
dvisc	0.0026772	Pa×s	332.38	Joback Method
dvisc	0.0009523	Pa×s	373.89	Joback Method
dvisc	0.0004165	Pa×s	415.40	Joback Method
dvisc	0.0002117	Pa×s	456.92	Joback Method
dvisc	0.0001204	Pa×s	498.43	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C18521078&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
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume