2-pinen-5-ol

Inchi: InChI=1S/C10H16O/c1-7-4-5-10(11)6-8(7)9(10,2)3/h4,8,11H,5-6H2,1-3H3
InchiKey: LKGUYHHEOJFHPV-UHFFFAOYSA-N
Formula: C10H16O
SMILES: CC1=CCC2(O)CC1C2(C)C
Mol. weight [g/mol]: 152.23

Physical Properties

Property code	Value	Unit	Source
gf	7.54	kJ/mol	Joback Method
hf	-206.07	kJ/mol	Joback Method
hfus	9.22	kJ/mol	Joback Method
hvap	52.87	kJ/mol	Joback Method
log10ws	-2.54		Crippen Method
logp	2.114		Crippen Method
mcvol	131.610	ml/mol	McGowan Method
pc	3368.44	kPa	Joback Method
rinpol	1106.00		NIST Webbook
tb	538.08	K	Joback Method
tc	742.18	K	Joback Method
tf	352.48	K	Joback Method
vc	0.501	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	335.09	J/mol×K	538.08	Joback Method
cpg	349.08	J/mol×K	572.10	Joback Method
cpg	362.04	J/mol×K	606.11	Joback Method
cpg	374.17	J/mol×K	640.13	Joback Method
cpg	385.67	J/mol×K	674.15	Joback Method
cpg	396.73	J/mol×K	708.17	Joback Method
cpg	407.55	J/mol×K	742.18	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=R223224&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume