3-(5-Methyl-5-vinyltetrahydrofuran-2-yl)butan-2-ol

Inchi: InChI=1S/C11H20O2/c1-5-11(4)7-6-10(13-11)8(2)9(3)12/h5,8-10,12H,1,6-7H2,2-4H3
InchiKey: DTMNLTMKMOJMPJ-UHFFFAOYSA-N
Formula: C11H20O2
SMILES: C=CC1(C)CCC(C(C)C(C)O)O1
Mol. weight [g/mol]: 184.28
CAS: 54783-61-8

Physical Properties

Property code	Value	Unit	Source
gf	-74.89	kJ/mol	Joback Method
hf	-384.35	kJ/mol	Joback Method
hfus	16.70	kJ/mol	Joback Method
hvap	58.62	kJ/mol	Joback Method
log10ws	-2.62		Crippen Method
logp	2.127		Crippen Method
mcvol	162.430	ml/mol	McGowan Method
pc	2654.29	kPa	Joback Method
rinpol	1376.30		NIST Webbook
rinpol	1376.30		NIST Webbook
tb	576.86	K	Joback Method
tc	771.52	K	Joback Method
tf	299.92	K	Joback Method
vc	0.599	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	429.95	J/mol×K	576.86	Joback Method
cpg	445.75	J/mol×K	609.30	Joback Method
cpg	460.69	J/mol×K	641.75	Joback Method
cpg	474.86	J/mol×K	674.19	Joback Method
cpg	488.35	J/mol×K	706.64	Joback Method
cpg	501.26	J/mol×K	739.08	Joback Method
cpg	513.67	J/mol×K	771.52	Joback Method

Sources

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=C54783618&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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