Dihydrochamazulene 5

Inchi: InChI=1S/C15H20/c1-10(2)13-7-5-11(3)14-8-6-12(4)15(14)9-13/h5-8,10,13H,9H2,1-4H3
InchiKey: QRFOOWLKIGHQGM-UHFFFAOYSA-N
Formula: C15H20
SMILES: CC1=C2C=CC(C)=C2CC(C(C)C)C=C1
Mol. weight [g/mol]: 200.32

Physical Properties

Property code	Value	Unit	Source
gf	235.11	kJ/mol	Joback Method
hf	-31.67	kJ/mol	Joback Method
hfus	21.21	kJ/mol	Joback Method
hvap	53.23	kJ/mol	Joback Method
log10ws	-4.82		Crippen Method
logp	4.421		Crippen Method
mcvol	183.290	ml/mol	McGowan Method
pc	2117.78	kPa	Joback Method
rinpol	1651.00		NIST Webbook
tb	593.95	K	Joback Method
tc	815.53	K	Joback Method
tf	322.97	K	Joback Method
vc	0.697	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	461.53	J/mol×K	593.95	Joback Method
cpg	545.52	J/mol×K	778.60	Joback Method
cpg	530.81	J/mol×K	741.67	Joback Method
cpg	515.11	J/mol×K	704.74	Joback Method
cpg	498.37	J/mol×K	667.81	Joback Method
cpg	480.53	J/mol×K	630.88	Joback Method
cpg	559.31	J/mol×K	815.53	Joback Method
dvisc	0.0002728	Pa×s	593.95	Joback Method
dvisc	0.0003240	Pa×s	548.79	Joback Method

dvisc	0.0003969	Pa×s	503.62	Joback Method
dvisc	0.0005061	Pa×s	458.46	Joback Method
dvisc	0.0006804	Pa×s	413.30	Joback Method
dvisc	0.0009838	Pa×s	368.13	Joback Method
dvisc	0.0015769	Pa×s	322.97	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=R633700&Units=SI

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume