

Dihydrochamazulene 4

Inchi:	InChI=1S/C15H20/c1-10(2)13-7-5-11(3)14-8-6-12(4)15(14)9-13/h6,8-10H,5,7H2,1-4H3
InchiKey:	HHROSHNZYCROCO-UHFFFAOYSA-N
Formula:	C15H20
SMILES:	CC1=C2C=C(C(C)C)CCC(C)=C2C=C1
Mol. weight [g/mol]:	200.32

Physical Properties

Property code	Value	Unit	Source
gf	233.19	kJ/mol	Joback Method
hf	-22.80	kJ/mol	Joback Method
hfus	19.75	kJ/mol	Joback Method
hvap	54.21	kJ/mol	Joback Method
log10ws	-5.06		Crippen Method
logp	4.565		Crippen Method
mcvol	183.290	ml/mol	McGowan Method
pc	2153.30	kPa	Joback Method
rinpol	1627.00		NIST Webbook
rinpol	1627.00		NIST Webbook
tb	603.60	K	Joback Method
tc	826.16	K	Joback Method
tf	339.73	K	Joback Method
vc	0.698	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	460.02	J/molxK	603.60	Joback Method
cpg	478.25	J/molxK	640.69	Joback Method
cpg	495.37	J/molxK	677.79	Joback Method
cpg	511.45	J/molxK	714.88	Joback Method
cpg	526.54	J/molxK	751.98	Joback Method
cpg	540.71	J/molxK	789.07	Joback Method
cpg	554.02	J/molxK	826.16	Joback Method
dvisc	0.0015052	Paxs	339.73	Joback Method

dvisc	0.0009265	Paxs	383.71	Joback Method
dvisc	0.0006301	Paxs	427.69	Joback Method
dvisc	0.0004605	Paxs	471.67	Joback Method
dvisc	0.0003550	Paxs	515.64	Joback Method
dvisc	0.0002851	Paxs	559.62	Joback Method
dvisc	0.0002364	Paxs	603.60	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R633691&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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

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