

# Dihydrochamazulene 3

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

## Physical Properties

Property code	Value	Unit	Source
gf	237.03	kJ/mol	Joback Method
hf	-40.54	kJ/mol	Joback Method
hfus	22.67	kJ/mol	Joback Method
hvap	52.26	kJ/mol	Joback Method
log10ws	-4.58		Crippen Method
logp	4.277		Crippen Method
mcvol	183.290	ml/mol	McGowan Method
pc	2083.12	kPa	Joback Method
rinsol	1613.00		NIST Webbook
tb	584.30	K	Joback Method
tc	804.86	K	Joback Method
tf	306.21	K	Joback Method
vc	0.696	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	462.66	J/molxK	584.30	Joback Method
cpg	482.45	J/molxK	621.06	Joback Method
cpg	501.03	J/molxK	657.82	Joback Method
cpg	518.45	J/molxK	694.58	Joback Method
cpg	534.78	J/molxK	731.34	Joback Method
cpg	550.06	J/molxK	768.10	Joback Method
cpg	564.36	J/molxK	804.86	Joback Method
dvisc	0.0015832	Paxs	306.21	Joback Method
dvisc	0.0010106	Paxs	352.56	Joback Method

dvisc	0.0007160	Paxs	398.91	Joback Method
dvisc	0.0005450	Paxs	445.25	Joback Method
dvisc	0.0004368	Paxs	491.60	Joback Method
dvisc	0.0003637	Paxs	537.95	Joback Method
dvisc	0.0003117	Paxs	584.30	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R633686&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R633686&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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