

# 7-Hydroxycadalene

<b>Inchi:</b>	InChI=1S/C15H18O/c1-9(2)12-6-5-10(3)13-8-15(16)11(4)7-14(12)13/h5-9,16H,1-4H3
<b>InchiKey:</b>	RIWNMJBJRPCUBX-UHFFFAOYSA-N
<b>Formula:</b>	C15H18O
<b>SMILES:</b>	<chem>Cc1cc2c(C(C)C)ccc(C)c2cc1O</chem>
<b>Mol. weight [g/mol]:</b>	214.30
<b>CAS:</b>	2102-75-2

## Physical Properties

Property code	Value	Unit	Source
gf	108.53	kJ/mol	Joback Method
hf	-142.33	kJ/mol	Joback Method
hfus	26.76	kJ/mol	Joback Method
hvap	67.51	kJ/mol	Joback Method
log10ws	-4.96		Crippen Method
logp	4.286		Crippen Method
mvol	184.860	ml/mol	McGowan Method
pc	2576.72	kPa	Joback Method
rinpol	1986.00		NIST Webbook
rinpol	1986.00		NIST Webbook
tb	683.38	K	Joback Method
tc	916.72	K	Joback Method
tf	452.21	K	Joback Method
vc	0.649	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	494.14	J/molxK	683.38	Joback Method
cpg	561.76	J/molxK	877.83	Joback Method
cpg	549.58	J/molxK	838.94	Joback Method
cpg	536.84	J/molxK	800.05	Joback Method
cpg	523.44	J/molxK	761.16	Joback Method
cpg	509.24	J/molxK	722.27	Joback Method
cpg	573.50	J/molxK	916.72	Joback Method

dvisc	0.0000267	Paxs	683.38	Joback Method
dvisc	0.0000374	Paxs	644.85	Joback Method
dvisc	0.0000546	Paxs	606.32	Joback Method
dvisc	0.0000841	Paxs	567.80	Joback Method
dvisc	0.0001379	Paxs	529.27	Joback Method
dvisc	0.0002443	Paxs	490.74	Joback Method
dvisc	0.0004772	Paxs	452.21	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<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=C2102752&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2102752&amp;Units=SI</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>mvol:</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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