

# «alpha»-curcumene dihydro(+)

<b>Inchi:</b>	InChI=1S/C15H26/c1-12(2)6-5-7-14(4)15-10-8-13(3)9-11-15/h8-10,12,14-15H,5-7,11H2,
<b>InchiKey:</b>	XIFQPGDVDRIQNE-UHFFFAOYSA-N
<b>Formula:</b>	C15H26
<b>SMILES:</b>	CC1=CCC(C(C)CCCC(C)C)C=C1
<b>Mol. weight [g/mol]:</b>	206.37

## Physical Properties

Property code	Value	Unit	Source
gf	145.28	kJ/mol	Joback Method
hf	-205.08	kJ/mol	Joback Method
hfus	21.45	kJ/mol	Joback Method
hvap	49.88	kJ/mol	Joback Method
log10ws	-4.98		Crippen Method
logp	4.971		Crippen Method
mcvol	202.750	ml/mol	McGowan Method
pc	1765.41	kPa	Joback Method
rinpol	1445.00		NIST Webbook
tb	564.57	K	Joback Method
tc	762.00	K	Joback Method
tf	250.23	K	Joback Method
vc	0.768	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	513.42	J/molxK	564.57	Joback Method
cpg	534.41	J/molxK	597.47	Joback Method
cpg	554.32	J/molxK	630.38	Joback Method
cpg	573.18	J/molxK	663.28	Joback Method
cpg	591.02	J/molxK	696.19	Joback Method
cpg	607.88	J/molxK	729.09	Joback Method
cpg	623.79	J/molxK	762.00	Joback Method
dvisc	0.0067473	Paxs	250.23	Joback Method
dvisc	0.0021104	Paxs	302.62	Joback Method

dvisc	0.0009302	Paxs	355.01	Joback Method
dvisc	0.0005062	Paxs	407.40	Joback Method
dvisc	0.0003164	Paxs	459.79	Joback Method
dvisc	0.0002177	Paxs	512.18	Joback Method
dvisc	0.0001606	Paxs	564.57	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=R519936&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R519936&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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