

# ar-Himachalene

<b>Inchi:</b>	InChI=1S/C15H22/c1-11-7-8-13-12(2)6-5-9-15(3,4)14(13)10-11/h7-8,10,12H,5-6,9H2,1-4
<b>InchiKey:</b>	RIHWULAZACSXEV-UHFFFAOYSA-N
<b>Formula:</b>	C15H22
<b>SMILES:</b>	<chem>Cc1ccc2c(c1)C(C)(C)CCCC2C</chem>
<b>Mol. weight [g/mol]:</b>	202.34
<b>CAS:</b>	19419-67-1

## Physical Properties

Property code	Value	Unit	Source
gf	191.92	kJ/mol	Joback Method
hf	-83.96	kJ/mol	Joback Method
hfus	16.58	kJ/mol	Joback Method
hvap	51.38	kJ/mol	Joback Method
log10ws	-4.76		Crippen Method
logp	4.560		Crippen Method
mcvol	187.590	ml/mol	McGowan Method
pc	2133.46	kPa	Joback Method
rinpol	1541.90		NIST Webbook
tb	590.09	K	Joback Method
tc	820.32	K	Joback Method
tf	340.83	K	Joback Method
vc	0.706	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	482.51	J/molxK	590.09	Joback Method
cpg	503.81	J/molxK	628.46	Joback Method
cpg	523.82	J/molxK	666.83	Joback Method
cpg	542.68	J/molxK	705.21	Joback Method
cpg	560.55	J/molxK	743.58	Joback Method
cpg	577.58	J/molxK	781.95	Joback Method
cpg	593.92	J/molxK	820.32	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=C19419671&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C19419671&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>rinpola:</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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