

# «alpha»-Corocalene

<b>Inchi:</b>	InChI=1S/C15H20/c1-10(2)13-8-6-12(4)14-7-5-11(3)9-15(13)14/h6,8-10H,5,7H2,1-4H3
<b>InchiKey:</b>	VTUZIFHLLUSULC-UHFFFAOYSA-N
<b>Formula:</b>	C15H20
<b>SMILES:</b>	CC1=Cc2c(C(C)C)ccc(C)c2CC1
<b>Mol. weight [g/mol]:</b>	200.32
<b>CAS:</b>	20129-39-9

## 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	-5.07		Crippen Method
logp	4.468		Crippen Method
mcvol	183.290	ml/mol	McGowan Method
pc	2153.30	kPa	Joback Method
rinpol	1605.00		NIST Webbook
rinpol	1629.20		NIST Webbook
rinpol	1623.00		NIST Webbook
rinpol	1603.00		NIST Webbook
rinpol	1610.00		NIST Webbook
rinpol	1623.00		NIST Webbook
rinpol	1619.00		NIST Webbook
rinpol	1623.00		NIST Webbook
rinpol	1608.00		NIST Webbook
rinpol	1629.20		NIST Webbook
rinpol	1630.00		NIST Webbook
rinpol	1608.00		NIST Webbook
ripol	2037.00		NIST Webbook
ripol	2083.00		NIST Webbook
ripol	2060.00		NIST Webbook
tb	603.60	K	Joback Method
tc	826.16	K	Joback Method
tf	339.73	K	Joback Method
vc	0.698	m <sup>3</sup> /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

<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=C20129399&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C20129399&amp;Units=SI</a>
<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>

## 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>ripol:</b>	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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