

# Laurenane

<b>Inchi:</b>	InChI=1S/C20H34/c1-14-7-6-10-18(4)12-9-16-17(2,3)13-19(5)11-8-15(14)20(16,18)19/h1
<b>InchiKey:</b>	WMGLDMQBOZFFAW-LMKBWKOUA-N
<b>Formula:</b>	C20H34
<b>SMILES:</b>	CC1CCCC2(C)CCC3C(C)(C)CC4(C)CCC1C324
<b>Mol. weight [g/mol]:</b>	274.48

## Physical Properties

Property code	Value	Unit	Source
gf	279.13	kJ/mol	Joback Method
hf	-183.47	kJ/mol	Joback Method
hfus	11.82	kJ/mol	Joback Method
hvap	54.75	kJ/mol	Joback Method
log10ws	-6.08		Crippen Method
logp	6.055		Crippen Method
mcvol	249.220	ml/mol	McGowan Method
pc	1649.77	kPa	Joback Method
ripol	1912.00		NIST Webbook
ripol	1940.00		NIST Webbook
ripol	2165.00		NIST Webbook
ripol	2204.00		NIST Webbook
ripol	2165.00		NIST Webbook
tb	683.72	K	Joback Method
tc	924.96	K	Joback Method
tf	459.24	K	Joback Method
vc	0.949	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	787.27	J/molxK	683.72	Joback Method
cpg	815.43	J/molxK	723.93	Joback Method
cpg	842.93	J/molxK	764.13	Joback Method
cpg	870.40	J/molxK	804.34	Joback Method
cpg	898.50	J/molxK	844.55	Joback Method

cpg	927.86	J/mol×K	884.75	Joback Method
cpg	959.11	J/mol×K	924.96	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R27342&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R27342&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>
<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>

## 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>hvac:</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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