

# Labd-8(17)-en-15-ol (Ladenol)

<b>Inchi:</b>	InChI=1S/C20H36O/c1-15(11-14-21)7-9-17-16(2)8-10-18-19(3,4)12-6-13-20(17,18)5/h15
<b>InchiKey:</b>	MRGUZWPTZWRQKP-ZPQVWODMSA-N
<b>Formula:</b>	C20H36O
<b>SMILES:</b>	<chem>C=C1CCC2C(C)(C)CCCC2(C)C1CCC(C)CCO</chem>
<b>Mol. weight [g/mol]:</b>	292.50

## Physical Properties

Property code	Value	Unit	Source
gf	78.04	kJ/mol	Joback Method
hf	-418.64	kJ/mol	Joback Method
hfus	24.38	kJ/mol	Joback Method
hvap	74.16	kJ/mol	Joback Method
log10ws	-5.89		Crippen Method
logp	5.584		Crippen Method
mcvol	272.510	ml/mol	McGowan Method
pc	1440.25	kPa	Joback Method
rinpol	2180.00		NIST Webbook
rinpol	2180.00		NIST Webbook
tb	769.60	K	Joback Method
tc	969.48	K	Joback Method
tf	435.78	K	Joback Method
vc	1.028	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	882.91	J/mol×K	769.60	Joback Method
cpg	905.21	J/mol×K	802.91	Joback Method
cpg	927.01	J/mol×K	836.23	Joback Method
cpg	948.49	J/mol×K	869.54	Joback Method
cpg	969.83	J/mol×K	902.86	Joback Method
cpg	991.22	J/mol×K	936.17	Joback Method
cpg	1012.85	J/mol×K	969.48	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R229217&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R229217&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>hvp:</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>rinp:</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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