

# labd-13(E)-ene,8«alpha»-15-diol

<b>Other names:</b>	labda-13(E)-en-8«alpha»,15-diol
<b>Inchi:</b>	InChI=1S/C20H36O2/c1-15(10-14-21)7-8-17-19(4)12-6-11-18(2,3)16(19)9-13-20(17,5)22
<b>InchiKey:</b>	LEOHDQKUMQKLMP-LEGXSQSVSA-N
<b>Formula:</b>	C20H36O2
<b>SMILES:</b>	CC(=CCO)CCC1C(C)(O)CCC2C(C)(C)CCCC21C
<b>Mol. weight [g/mol]:</b>	308.50

## Physical Properties

Property code	Value	Unit	Source
gf	-50.95	kJ/mol	Joback Method
hf	-547.50	kJ/mol	Joback Method
hfus	26.81	kJ/mol	Joback Method
hvap	89.64	kJ/mol	Joback Method
log10ws	-5.51		Crippen Method
logp	4.699		Crippen Method
mcvol	278.380	ml/mol	McGowan Method
pc	1598.72	kPa	Joback Method
rinpol	2408.00		NIST Webbook
rinpol	2409.00		NIST Webbook
tb	862.67	K	Joback Method
tc	1068.08	K	Joback Method
tf	498.54	K	Joback Method
vc	1.048	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	964.45	J/molxK	862.67	Joback Method
cpg	988.51	J/molxK	896.90	Joback Method
cpg	1013.24	J/molxK	931.14	Joback Method
cpg	1038.94	J/molxK	965.37	Joback Method
cpg	1065.88	J/molxK	999.61	Joback Method
cpg	1094.35	J/molxK	1033.84	Joback Method
cpg	1124.63	J/molxK	1068.08	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R327707&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R327707&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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