

# Dihydrodehydrocostus lactone

<b>Inchi:</b>	InChI=1S/C15H20O2/c1-8-4-7-12-10(3)15(16)17-14(12)13-9(2)5-6-11(8)13/h10-14H,1-2,
<b>InchiKey:</b>	UJADCNYXDHHISU-UHFFFAOYSA-N
<b>Formula:</b>	C15H20O2
<b>SMILES:</b>	<chem>C=C1CCC2C(C)C(=O)OC2C2C(=C)CCC12</chem>
<b>Mol. weight [g/mol]:</b>	232.32
<b>CAS:</b>	4955-03-7

## Physical Properties

Property code	Value	Unit	Source
gf	91.30	kJ/mol	Joback Method
hf	-301.07	kJ/mol	Joback Method
hfus	27.92	kJ/mol	Joback Method
hvap	57.87	kJ/mol	Joback Method
log10ws	-3.50		Crippen Method
logp	3.096		Crippen Method
mcvol	188.470	ml/mol	McGowan Method
pc	2123.64	kPa	Joback Method
rinpol	1953.90		NIST Webbook
rinpol	1953.90		NIST Webbook
tb	663.65	K	Joback Method
tc	897.40	K	Joback Method
tf	412.22	K	Joback Method
vc	0.709	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	564.23	J/mol×K	663.65	Joback Method
cpg	586.12	J/mol×K	702.61	Joback Method
cpg	606.54	J/mol×K	741.57	Joback Method
cpg	625.53	J/mol×K	780.53	Joback Method
cpg	643.13	J/mol×K	819.49	Joback Method
cpg	659.38	J/mol×K	858.44	Joback Method
cpg	674.32	J/mol×K	897.40	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C4955037&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C4955037&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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