

# trans-Dihydroagarofuran

<b>Inchi:</b>	InChI=1S/C15H26O/c1-11-6-5-8-14(4)9-7-12-10-15(11,14)16-13(12,2)3/h11-12H,5-10H2
<b>InchiKey:</b>	HVAVUZLEYSAYGE-FWIFWCIWSA-N
<b>Formula:</b>	C15H26O
<b>SMILES:</b>	CC1CCCC2(C)CCC3CC12OC3(C)C
<b>Mol. weight [g/mol]:</b>	222.37

## Physical Properties

Property code	Value	Unit	Source
gf	103.36	kJ/mol	Joback Method
hf	-279.97	kJ/mol	Joback Method
hfus	13.94	kJ/mol	Joback Method
hvap	49.68	kJ/mol	Joback Method
log10ws	-4.37		Crippen Method
logp	4.160		Crippen Method
mvol	195.500	ml/mol	McGowan Method
pc	2197.95	kPa	Joback Method
rmpol	1489.00		NIST Webbook
rmpol	1489.00		NIST Webbook
tb	593.96	K	Joback Method
tc	830.88	K	Joback Method
tf	391.86	K	Joback Method
vc	0.736	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	558.99	J/mol×K	593.96	Joback Method
cpg	583.21	J/mol×K	633.45	Joback Method
cpg	605.88	J/mol×K	672.93	Joback Method
cpg	627.44	J/mol×K	712.42	Joback Method
cpg	648.34	J/mol×K	751.91	Joback Method
cpg	669.02	J/mol×K	791.40	Joback Method
cpg	689.92	J/mol×K	830.88	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R303201&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R303201&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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