

# (1R,7S,E)-7-Isopropyl-4,10-dimethylenecyclodec-5

<b>Inchi:</b>	InChI=1S/C15H24O/c1-11(2)14-8-5-12(3)6-10-15(16)13(4)7-9-14/h5,8,11,14-16H,3-4,6-7
<b>InchiKey:</b>	OSSWBZXPRYZGRO-VMPITWQZSA-N
<b>Formula:</b>	C15H24O
<b>SMILES:</b>	C=C1C=CC(C(C)C)CCC(=C)C(O)CC1
<b>Mol. weight [g/mol]:</b>	220.35
<b>CAS:</b>	81968-62-9

## Physical Properties

Property code	Value	Unit	Source
gf	40.62	kJ/mol	Joback Method
hf	-274.84	kJ/mol	Joback Method
hfus	18.58	kJ/mol	Joback Method
hvap	66.69	kJ/mol	Joback Method
log10ws	-4.45		Crippen Method
logp	3.862		Crippen Method
mcvol	204.320	ml/mol	McGowan Method
pc	2043.76	kPa	Joback Method
rinpol	1694.50		NIST Webbook
tb	663.78	K	Joback Method
tc	869.88	K	Joback Method
tf	321.81	K	Joback Method
vc	0.743	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	573.91	J/molxK	663.78	Joback Method
cpg	660.89	J/molxK	835.53	Joback Method
cpg	645.87	J/molxK	801.18	Joback Method
cpg	629.66	J/molxK	766.83	Joback Method
cpg	612.26	J/molxK	732.48	Joback Method
cpg	593.68	J/molxK	698.13	Joback Method
cpg	674.71	J/molxK	869.88	Joback Method
dvisc	0.0000220	Paxs	663.78	Joback Method

dvisc	0.0000378	Paxs	606.78	Joback Method
dvisc	0.0000724	Paxs	549.79	Joback Method
dvisc	0.0001614	Paxs	492.79	Joback Method
dvisc	0.0004435	Paxs	435.80	Joback Method
dvisc	0.0016523	Paxs	378.81	Joback Method
dvisc	0.0098098	Paxs	321.81	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C81968629&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C81968629&amp;Units=SI</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<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>hvap:</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>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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