

# 1,7-Cyclogermacra-1(10),4-dien-15-al

<b>Inchi:</b>	InChI=1S/C15H22O/c1-11(2)15-8-6-12(3)14(15)5-4-13(10-16)7-9-15/h7,10-11H,4-6,8-9H
<b>InchiKey:</b>	MWDZEHCTRAXXDY-UHFFFAOYSA-N
<b>Formula:</b>	C15H22O
<b>SMILES:</b>	CC1=C2CCC(C=O)=CCC2(C(C)C)CC1
<b>Mol. weight [g/mol]:</b>	218.33

## Physical Properties

Property code	Value	Unit	Source
gf	79.81	kJ/mol	Joback Method
hf	-206.10	kJ/mol	Joback Method
hfus	15.15	kJ/mol	Joback Method
hvap	57.56	kJ/mol	Joback Method
log10ws	-4.39		Crippen Method
logp	4.048		Crippen Method
mcvol	193.460	ml/mol	McGowan Method
pc	2244.00	kPa	Joback Method
ripol	1674.00		NIST Webbook
ripol	1679.00		NIST Webbook
ripol	1679.00		NIST Webbook
ripol	2215.00		NIST Webbook
ripol	2215.00		NIST Webbook
tb	639.55	K	Joback Method
tc	866.52	K	Joback Method
tf	374.83	K	Joback Method
vc	0.740	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	525.33	J/molxK	639.55	Joback Method
cpg	544.47	J/molxK	677.38	Joback Method
cpg	562.52	J/molxK	715.21	Joback Method
cpg	579.64	J/molxK	753.03	Joback Method
cpg	596.00	J/molxK	790.86	Joback Method

cpg	611.75	J/mol×K	828.69	Joback Method
cpg	627.07	J/mol×K	866.52	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=R198460&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R198460&amp;Units=SI</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>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>ripol:</b>	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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