

# Germacrene D isomer # 1

<b>Other names:</b>	1-Methyl-5-methylene-8-(1-methylethyl)-1,6-cyclodecadiene
<b>Inchi:</b>	InChI=1S/C15H24/c1-12(2)15-10-8-13(3)6-5-7-14(4)9-11-15/h7-8,10,12,15H,3,5-6,9,11H
<b>InchiKey:</b>	GAIBLDCXCZKKJE-YZJXYJLZSA-N
<b>Formula:</b>	C15H24
<b>SMILES:</b>	<chem>C=C1C=CC(C(C)C)CCC(C)=CCC1</chem>
<b>Mol. weight [g/mol]:</b>	204.35

## Physical Properties

Property code	Value	Unit	Source
gf	152.40	kJ/mol	Joback Method
hf	-140.20	kJ/mol	Joback Method
hfus	15.41	kJ/mol	Joback Method
hvap	51.12	kJ/mol	Joback Method
log10ws	-5.07		Crippen Method
logp	4.891		Crippen Method
mcpvol	198.450	ml/mol	McGowan Method
pc	1942.37	kPa	Joback Method
rinpol	1457.00		NIST Webbook
rinpol	1481.00		NIST Webbook
rinpol	1481.00		NIST Webbook
tb	581.25	K	Joback Method
tc	804.50	K	Joback Method
tf	264.83	K	Joback Method
vc	0.727	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	499.53	J/molxK	581.25	Joback Method
cpg	523.14	J/molxK	618.46	Joback Method
cpg	545.41	J/molxK	655.67	Joback Method
cpg	566.34	J/molxK	692.88	Joback Method
cpg	585.93	J/molxK	730.09	Joback Method
cpg	604.19	J/molxK	767.29	Joback Method

cpg	621.12	J/mol×K	804.50	Joback Method
dvisc	0.0085131	Paxs	264.83	Joback Method
dvisc	0.0019587	Paxs	317.57	Joback Method
dvisc	0.0006848	Paxs	370.30	Joback Method
dvisc	0.0003112	Paxs	423.04	Joback Method
dvisc	0.0001684	Paxs	475.78	Joback Method
dvisc	0.0001030	Paxs	528.51	Joback Method
dvisc	0.0000689	Paxs	581.25	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R286314&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R286314&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>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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