

# Aphidicol-16-ene

<b>Inchi:</b>	InChI=1S/C20H32/c1-14-8-11-20-13-15(14)12-16(20)6-7-17-18(2,3)9-5-10-19(17,20)4/h1
<b>InchiKey:</b>	GNNRCBBKCVNPSC-CVOYVFRVSA-N
<b>Formula:</b>	C20H32
<b>SMILES:</b>	C=C1CCC23CC1CC2CCC1C(C)(C)CCCC13C
<b>Mol. weight [g/mol]:</b>	272.47

## Physical Properties

Property code	Value	Unit	Source
gf	333.31	kJ/mol	Joback Method
hf	-100.29	kJ/mol	Joback Method
hfus	13.79	kJ/mol	Joback Method
hvap	56.54	kJ/mol	Joback Method
log10ws	-6.18		Crippen Method
logp	5.975		Crippen Method
mvol	244.920	ml/mol	McGowan Method
pc	1693.51	kPa	Joback Method
rinpol	2113.00		NIST Webbook
tb	691.58	K	Joback Method
tc	933.36	K	Joback Method
tf	449.74	K	Joback Method
vc	0.927	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	768.47	J/mol×K	691.58	Joback Method
cpg	795.89	J/mol×K	731.88	Joback Method
cpg	822.42	J/mol×K	772.17	Joback Method
cpg	848.59	J/mol×K	812.47	Joback Method
cpg	874.91	J/mol×K	852.76	Joback Method
cpg	901.90	J/mol×K	893.06	Joback Method
cpg	930.06	J/mol×K	933.36	Joback Method

# Sources

<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=R626450&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R626450&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>

# 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>mccvol:</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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