

# cis-Arbusculone

<b>Inchi:</b>	InChI=1S/C9H14O2/c1-4-9(3)6-5-8(11-9)7(2)10/h4,8H,1,5-6H2,2-3H3/t8-,9+/m0/s1
<b>InchiKey:</b>	FBFSXARBCWGXJL-DTWKUNHWSA-N
<b>Formula:</b>	C9H14O2
<b>SMILES:</b>	C=CC1(C)CCC(C(C)=O)O1
<b>Mol. weight [g/mol]:</b>	154.21
<b>CAS:</b>	56469-37-5

## Physical Properties

Property code	Value	Unit	Source
gf	-78.95	kJ/mol	Joback Method
hf	-292.86	kJ/mol	Joback Method
hfus	16.07	kJ/mol	Joback Method
hvap	45.01	kJ/mol	Joback Method
log10ws	-1.93		Crippen Method
logp	1.699		Crippen Method
mcvol	129.950	ml/mol	McGowan Method
pc	3107.10	kPa	Joback Method
rinpol	1026.00		NIST Webbook
rinpol	1072.00		NIST Webbook
rinpol	1068.00		NIST Webbook
rinpol	1066.00		NIST Webbook
rinpol	1052.00		NIST Webbook
rinpol	1051.00		NIST Webbook
rinpol	1052.00		NIST Webbook
rinpol	1052.50		NIST Webbook
rinpol	1058.00		NIST Webbook
rinpol	1072.00		NIST Webbook
rinpol	1051.00		NIST Webbook
rinpol	1026.00		NIST Webbook
rinpol	1049.00		NIST Webbook
rinpol	1046.00		NIST Webbook
rinpol	1052.00		NIST Webbook
rinpol	1039.00		NIST Webbook
rinpol	1053.00		NIST Webbook
rinpol	1039.00		NIST Webbook
rinpol	1077.00		NIST Webbook
rinpol	1071.50		NIST Webbook

rropol	1071.00		NIST Webbook
rropol	1071.00		NIST Webbook
tb	493.67	K	Joback Method
tc	708.12	K	Joback Method
tf	296.49	K	Joback Method
vc	0.485	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	296.91	J/mol×K	493.67	Joback Method
cpg	312.55	J/mol×K	529.41	Joback Method
cpg	327.13	J/mol×K	565.15	Joback Method
cpg	340.75	J/mol×K	600.89	Joback Method
cpg	353.53	J/mol×K	636.63	Joback Method
cpg	365.57	J/mol×K	672.38	Joback Method
cpg	376.99	J/mol×K	708.12	Joback Method

## Sources

<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=C56469364&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C56469364&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>

## 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>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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