

# Arteannuic acid

<b>Other names:</b>	1-Naphthaleneacetic acid, 1,2,3,4,4a,5,6,8a-octahydro-4,7-dimethyl-«alpha»-methylene-, (1R,4R,4aS,8aR)- 2-(4,7-dimethyl-1,2,3,4,4a,5,6,8a-octahydronaphthalen-1-yl)prop-2-enoic acid
<b>Inchi:</b>	InChI=1S/C15H22O2/c1-9-4-6-12-10(2)5-7-13(14(12)8-9)11(3)15(16)17/h8,10,12-14H,3-
<b>InchiKey:</b>	PLQMEXSCSAIXGB-UHFFFAOYSA-N
<b>Formula:</b>	C15H22O2
<b>SMILES:</b>	<chem>C=C(C(=O)O)C1CCC(C)C2CCC(C)=CC12</chem>
<b>Mol. weight [g/mol]:</b>	234.33
<b>CAS:</b>	80286-58-4

## Physical Properties

Property code	Value	Unit	Source
gf	-33.02	kJ/mol	Joback Method
hf	-375.51	kJ/mol	Joback Method
hfus	28.55	kJ/mol	Joback Method
hvap	72.67	kJ/mol	Joback Method
log10ws	-3.73		Crippen Method
logp	3.646		Crippen Method
mvol	199.330	ml/mol	McGowan Method
pc	2181.56	kPa	Joback Method
rinpol	1825.00		NIST Webbook
rinpol	1825.00		NIST Webbook
tb	710.57	K	Joback Method
tc	918.54	K	Joback Method
tf	380.44	K	Joback Method
vc	0.749	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	601.72	J/molxK	710.57	Joback Method
cpg	619.40	J/molxK	745.23	Joback Method
cpg	635.94	J/molxK	779.89	Joback Method
cpg	651.40	J/molxK	814.56	Joback Method
cpg	665.82	J/molxK	849.22	Joback Method

cpg	679.25	J/mol×K	883.88	Joback Method
cpg	691.75	J/mol×K	918.54	Joback Method

## Sources

<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=C80286584&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C80286584&amp;Units=SI</a>
<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>

## 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>hvac:</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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