

# (2E,4E)-Methyl abscisate

<b>Other names:</b>	Me-2-trans-(+/-)abscisic acid
<b>Inchi:</b>	InChI=1S/C16H22O4/c1-11(8-14(18)20-5)6-7-16(19)12(2)9-13(17)10-15(16,3)4/h6-9,19H
<b>InchiKey:</b>	HHDYPZVHXGPCRG-XSMWWFTRSA-N
<b>Formula:</b>	C16H22O4
<b>SMILES:</b>	<chem>COC(=O)C=C(C)C=CC1(O)C(C)=CC(=O)CC1(C)C</chem>
<b>Mol. weight [g/mol]:</b>	278.34

## Physical Properties

Property code	Value	Unit	Source
gf	-231.51	kJ/mol	Joback Method
hf	-572.88	kJ/mol	Joback Method
hfus	23.82	kJ/mol	Joback Method
hvap	80.06	kJ/mol	Joback Method
log10ws	-3.25		Crippen Method
logp	2.338		Crippen Method
mcvol	227.420	ml/mol	McGowan Method
pc	2086.93	kPa	Joback Method
rinpol	2122.00		NIST Webbook
rinpol	2122.00		NIST Webbook
tb	829.47	K	Joback Method
tc	1049.82	K	Joback Method
tf	511.38	K	Joback Method
vc	0.857	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	696.10	J/mol×K	829.47	Joback Method
cpg	713.78	J/mol×K	866.20	Joback Method
cpg	731.59	J/mol×K	902.92	Joback Method
cpg	749.72	J/mol×K	939.65	Joback Method
cpg	768.36	J/mol×K	976.37	Joback Method
cpg	787.72	J/mol×K	1013.10	Joback Method
cpg	807.99	J/mol×K	1049.82	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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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=R425440&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R425440&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>hvp:</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>rinp:</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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