

# (-)-Jasmonic acid, Ile-conjugate # 2, methyl ester

Inchi:	InChI=1S/C19H31NO4/c1-5-7-8-9-15-14(10-11-16(15)21)12-17(22)20-18(13(3)6-2)19(23)
InchiKey:	YAGOAONRDWKQSK-FPLPWBNLSA-N
Formula:	C19H31NO4
SMILES:	CCC=CCC1C(=O)CCC1CC(=O)NC(C(=O)OC)C(C)CC
Mol. weight [g/mol]:	337.45

## Physical Properties

Property code	Value	Unit	Source
gf	-182.76	kJ/mol	Joback Method
hf	-730.30	kJ/mol	Joback Method
hfus	42.12	kJ/mol	Joback Method
hvap	83.60	kJ/mol	Joback Method
log10ws	-4.02		Crippen Method
logp	3.032		Crippen Method
mcvol	283.970	ml/mol	McGowan Method
pc	1402.74	kPa	Joback Method
rinpola	2342.00		NIST Webbook
rinpola	2342.00		NIST Webbook
tb	896.16	K	Joback Method
tc	1109.88	K	Joback Method
tf	518.44	K	Joback Method
vc	1.079	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	948.27	J/molxK	896.16	Joback Method
cpg	964.81	J/molxK	931.78	Joback Method
cpg	979.93	J/molxK	967.40	Joback Method
cpg	993.68	J/molxK	1003.02	Joback Method
cpg	1006.06	J/molxK	1038.64	Joback Method
cpg	1017.11	J/molxK	1074.26	Joback Method
cpg	1026.85	J/molxK	1109.88	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R539138&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R539138&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>
<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>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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