

# (Z)-«alpha»-Damascenone

<b>Inchi:</b>	InChI=1S/C13H18O/c1-5-7-11(14)12-10(2)8-6-9-13(12,3)4/h5-9,12H,1-4H3/b7-5-
<b>InchiKey:</b>	JGBBQKAJVHEQJM-ALCCZGGFSA-N
<b>Formula:</b>	C13H18O
<b>SMILES:</b>	CC=CC(=O)C1C(C)=CC=CC1(C)C
<b>Mol. weight [g/mol]:</b>	190.28

## Physical Properties

Property code	Value	Unit	Source
gf	71.42	kJ/mol	Joback Method
hf	-153.70	kJ/mol	Joback Method
hfus	19.89	kJ/mol	Joback Method
hvap	51.45	kJ/mol	Joback Method
log10ws	-3.52		Crippen Method
logp	3.290		Crippen Method
mcvol	171.840	ml/mol	McGowan Method
pc	2318.07	kPa	Joback Method
rinsol	1352.00		NIST Webbook
tb	573.29	K	Joback Method
tc	793.42	K	Joback Method
tf	322.20	K	Joback Method
vc	0.651	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	418.67	J/mol×K	573.29	Joback Method
cpg	436.18	J/mol×K	609.98	Joback Method
cpg	452.61	J/mol×K	646.67	Joback Method
cpg	468.10	J/mol×K	683.35	Joback Method
cpg	482.77	J/mol×K	720.04	Joback Method
cpg	496.77	J/mol×K	756.73	Joback Method
cpg	510.21	J/mol×K	793.42	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=R517792&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R517792&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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpola:</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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