

# «alpha»-Damascone

<b>Inchi:</b>	InChI=1S/C13H20O/c1-5-7-11(14)12-10(2)8-6-9-13(12,3)4/h5,8,12H,1,6-7,9H2,2-4H3
<b>InchiKey:</b>	GCGZDUFEEQNVPR-UHFFFAOYSA-N
<b>Formula:</b>	C13H20O
<b>SMILES:</b>	C=CCC(=O)C1C(C)=CCCC1(C)C
<b>Mol. weight [g/mol]:</b>	192.30
<b>CAS:</b>	31089-90-4

## Physical Properties

Property code	Value	Unit	Source
gf	49.08	kJ/mol	Joback Method
hf	-203.27	kJ/mol	Joback Method
hfus	17.19	kJ/mol	Joback Method
hvap	50.53	kJ/mol	Joback Method
log10ws	-3.66		Crippen Method
logp	3.514		Crippen Method
mcvol	176.140	ml/mol	McGowan Method
pc	2218.71	kPa	Joback Method
rinpol	1384.00		NIST Webbook
rinpol	1386.00		NIST Webbook
rinpol	1392.00		NIST Webbook
rinpol	1378.00		NIST Webbook
rinpol	1380.00		NIST Webbook
ripol	1812.00		NIST Webbook
ripol	1774.00		NIST Webbook
tb	566.65	K	Joback Method
tc	779.77	K	Joback Method
tf	324.76	K	Joback Method
vc	0.666	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	437.08	J/molxK	566.65	Joback Method
cpg	455.58	J/molxK	602.17	Joback Method

cpg	473.01	J/mol×K	637.69	Joback Method
cpg	489.48	J/mol×K	673.21	Joback Method
cpg	505.09	J/mol×K	708.73	Joback Method
cpg	519.97	J/mol×K	744.25	Joback Method
cpg	534.22	J/mol×K	779.77	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=C31089904&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C31089904&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>rinpola:</b>	Non-polar retention indices
<b>ripola:</b>	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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