

# santalone

<b>Other names:</b>	1-(2,3-Dimethyltricyclo[2.2.1.0 <sup>2,6</sup> ]heptan-3-yl)ethanone
<b>Inchi:</b>	InChI=1S/C11H16O/c1-6(12)10(2)7-4-8-9(5-7)11(8,10)3/h7-9H,4-5H2,1-3H3
<b>InchiKey:</b>	OTAKYGLQNSNZRX-UHFFFAOYSA-N
<b>Formula:</b>	C11H16O
<b>SMILES:</b>	CC(=O)C1(C)C2CC3C(C2)C31C
<b>Mol. weight [g/mol]:</b>	164.24
<b>CAS:</b>	59300-51-5

## Physical Properties

Property code	Value	Unit	Source
gf	92.87	kJ/mol	Joback Method
hf	-162.43	kJ/mol	Joback Method
hfus	14.00	kJ/mol	Joback Method
hvap	43.30	kJ/mol	Joback Method
log10ws	-2.18		Crippen Method
logp	2.258		Crippen Method
mcvol	134.840	ml/mol	McGowan Method
pc	2931.34	kPa	Joback Method
rinpol	1186.60		NIST Webbook
rinpol	1181.00		NIST Webbook
tb	507.77	K	Joback Method
tc	722.18	K	Joback Method
tf	363.84	K	Joback Method
vc	0.538	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	347.47	J/molxK	507.77	Joback Method
cpg	364.61	J/molxK	543.51	Joback Method
cpg	380.17	J/molxK	579.24	Joback Method
cpg	394.41	J/molxK	614.98	Joback Method
cpg	407.63	J/molxK	650.71	Joback Method
cpg	420.09	J/molxK	686.45	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=C59300515&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C59300515&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>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>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

Latest version available from:

<https://www.chemeo.com/cid/44-663-7/santalone.pdf>

Generated by Cheméo on 2024-04-25 20:44:27.479242574 +0000 UTC m=+16367116.399819887.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.