

# 4a(2H)-Naphthalenol, octahydro-8a-methyl-trans-

<b>Inchi:</b>	InChI=1S/C11H20O/c1-10-6-2-4-8-11(10,12)9-5-3-7-10/h12H,2-9H2,1H3/t10-,11+
<b>InchiKey:</b>	UWRUMJPLZZBUCM-PHIMTYICSA-N
<b>Formula:</b>	C11H20O
<b>SMILES:</b>	CC12CCCCC1(O)CCCC2
<b>Mol. weight [g/mol]:</b>	168.28
<b>CAS:</b>	5173-73-9

## Physical Properties

Property code	Value	Unit	Source
gf	-32.96	kJ/mol	Joback Method
hf	-271.16	kJ/mol	Joback Method
hfus	3.61	kJ/mol	Joback Method
hvap	54.97	kJ/mol	Joback Method
ie	9.41 ± 0.05	eV	NIST Webbook
log10ws	-3.35		Crippen Method
logp	2.872		Crippen Method
mcvol	150.000	ml/mol	McGowan Method
pc	3333.53	kPa	Joback Method
tb	574.30	K	Joback Method
tc	794.07	K	Joback Method
tf	344.15	K	Joback Method
vc	0.548	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	403.12	J/mol×K	574.30	Joback Method
cpg	421.30	J/mol×K	610.93	Joback Method
cpg	438.27	J/mol×K	647.56	Joback Method
cpg	454.27	J/mol×K	684.19	Joback Method
cpg	469.54	J/mol×K	720.82	Joback Method
cpg	484.30	J/mol×K	757.45	Joback Method
cpg	498.81	J/mol×K	794.07	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.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=C5173739&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C5173739&amp;Units=SI</a>

# Legend

<b>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</b>	Enthalpy of fusion at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>ie:</b>	Ionization energy
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<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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