

# Naphth-2-ylmethyl

<b>Other names:</b>	2-Naphthylmethyl radical
<b>Inchi:</b>	InChI=1S/C11H9/c1-9-6-7-10-4-2-3-5-11(10)8-9/h2-8H,1H2
<b>InchiKey:</b>	LSQKUIVOSBEUAZ-UHFFFAOYSA-N
<b>Formula:</b>	C11H9
<b>SMILES:</b>	[CH2]c1ccc2ccccc2c1
<b>Mol. weight [g/mol]:</b>	141.19
<b>CAS:</b>	7419-61-6

## Physical Properties

Property code	Value	Unit	Source
gf	303.55	kJ/mol	Joback Method
hf	201.57	kJ/mol	Joback Method
hfus	16.60	kJ/mol	Joback Method
hvap	44.51	kJ/mol	Joback Method
ie	7.56 ± 0.05	eV	NIST Webbook
log10ws	-3.37		Crippen Method
logp	3.022		Crippen Method
mcvol	120.480	ml/mol	McGowan Method
pc	3589.94	kPa	Joback Method
tb	501.02	K	Joback Method
tc	731.61	K	Joback Method
tf	301.74	K	Joback Method
vc	0.457	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	244.73	J/molxK	501.02	Joback Method
cpg	257.91	J/molxK	539.45	Joback Method
cpg	269.97	J/molxK	577.88	Joback Method
cpg	281.00	J/molxK	616.31	Joback Method
cpg	291.12	J/molxK	654.75	Joback Method
cpg	300.43	J/molxK	693.18	Joback Method
cpg	309.04	J/molxK	731.61	Joback Method

dvisc	0.0012093	Paxs	301.74	Joback Method
dvisc	0.0010005	Paxs	334.95	Joback Method
dvisc	0.0008566	Paxs	368.17	Joback Method
dvisc	0.0007525	Paxs	401.38	Joback Method
dvisc	0.0006742	Paxs	434.59	Joback Method
dvisc	0.0006136	Paxs	467.81	Joback Method
dvisc	0.0005655	Paxs	501.02	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=C7419616&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C7419616&amp;Units=SI</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<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>ie:</b>	Ionization energy
<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>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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