

# 1-Methyl-3,4-dihydro-2-naphthoic acid

<b>Inchi:</b>	InChI=1S/C12H12O2/c1-8-10-5-3-2-4-9(10)6-7-11(8)12(13)14/h2-5H,6-7H2,1H3,(H,13,14)
<b>InchiKey:</b>	BIWORKOXNUWVKT-UHFFFAOYSA-N
<b>Formula:</b>	C12H12O2
<b>SMILES:</b>	CC1=C(C(=O)O)CCc2ccccc21
<b>Mol. weight [g/mol]:</b>	188.22
<b>CAS:</b>	6279-88-5

## Physical Properties

Property code	Value	Unit	Source
gf	-45.74	kJ/mol	Joback Method
hf	-208.94	kJ/mol	Joback Method
hfus	21.58	kJ/mol	Joback Method
hvap	70.68	kJ/mol	Joback Method
log10ws	-2.93		Crippen Method
logp	2.491		Crippen Method
mcvol	148.460	ml/mol	McGowan Method
pc	3439.94	kPa	Joback Method
tb	676.47	K	Joback Method
tc	894.63	K	Joback Method
tf	419.15	K	Joback Method
vc	0.560	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	382.18	J/molxK	676.47	Joback Method
cpg	393.72	J/molxK	712.83	Joback Method
cpg	404.48	J/molxK	749.19	Joback Method
cpg	414.53	J/molxK	785.55	Joback Method
cpg	423.91	J/molxK	821.91	Joback Method
cpg	432.67	J/molxK	858.27	Joback Method
cpg	440.89	J/molxK	894.63	Joback Method
dvisc	0.0017184	Paxs	419.15	Joback Method
dvisc	0.0008582	Paxs	462.04	Joback Method

dvisc	0.0004823	Paxs	504.92	Joback Method
dvisc	0.0002966	Paxs	547.81	Joback Method
dvisc	0.0001958	Paxs	590.70	Joback Method
dvisc	0.0001367	Paxs	633.58	Joback Method
dvisc	0.0000999	Paxs	676.47	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=C6279885&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6279885&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>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>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mccvol:</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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