

# 2-Naphthalenol, 5,6,7,8-tetrahydro-

<b>Other names:</b>	2-Hydroxy-5,6,7,8-tetrahydronaphthalene 2-Naphthol, 5,6,7,8-tetrahydro- 5,6,7,8-Tetrahydro-2-hydroxynaphthalene 5,6,7,8-Tetrahydro-2-naphthol 5,6,7,8-Tetrahydro-«beta»-naphthol 5,6,7,8-Tetrahydro-Â«betaÂ»-naphthol 6-Hydroxytetralin 6-Tetralinol NSC 65604 Tetrahydro-«beta»-naphthol Tetrahydro-Â«betaÂ»-naphthol ac-«beta»-Tetralol ac-Â«betaÂ»-Tetralol
<b>Inchi:</b>	InChI=1S/C10H12O/c11-10-6-5-8-3-1-2-4-9(8)7-10/h5-7,11H,1-4H2
<b>InchiKey:</b>	UMKXSOXZAXIOPJ-UHFFFAOYSA-N
<b>Formula:</b>	C10H12O
<b>SMILES:</b>	Oc1ccc2c(c1)CCCC2
<b>Mol. weight [g/mol]:</b>	148.20
<b>CAS:</b>	1125-78-6

## Physical Properties

Property code	Value	Unit	Source
gf	37.84	kJ/mol	Joback Method
hf	-115.00	kJ/mol	Joback Method
hfus	16.06	kJ/mol	Joback Method
hvap	54.20	kJ/mol	Joback Method
log10ws	-1.99		Aqueous Solubility Prediction Method
log10ws	-1.99		Estimated Solubility Method
logp	2.271		Crippen Method
mvol	123.010	ml/mol	McGowan Method
pc	4299.92	kPa	Joback Method
tb	548.70	K	NIST Webbook
tc	801.84	K	Joback Method
tf	332.65	K	Aqueous Solubility Prediction Method
tf	333.00 ± 3.00	K	NIST Webbook

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	295.09	J/molxK	556.16	Joback Method
cpg	309.74	J/molxK	597.11	Joback Method
cpg	323.17	J/molxK	638.05	Joback Method
cpg	335.52	J/molxK	679.00	Joback Method
cpg	346.93	J/molxK	719.95	Joback Method
cpg	357.55	J/molxK	760.89	Joback Method
cpg	367.52	J/molxK	801.84	Joback Method
dvisc	0.0021372	Paxs	371.78	Joback Method
dvisc	0.0010013	Paxs	402.51	Joback Method
dvisc	0.0005224	Paxs	433.24	Joback Method
dvisc	0.0002971	Paxs	463.97	Joback Method
dvisc	0.0001812	Paxs	494.70	Joback Method
dvisc	0.0001171	Paxs	525.43	Joback Method
dvisc	0.0000794	Paxs	556.16	Joback Method

## Sources

**Joback Method:** [https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)

**Aqueous Solubility Prediction Method:** <http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa>

**Estimated Solubility Method:** [http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl\\_file/ci034243xsi20040112\\_053635.txt](http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt)

**McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>

**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C1125786&Units=SI>

**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

## Legend

**cpg:** Ideal gas heat capacity

**dvisc:** Dynamic viscosity

**gf:** Standard Gibbs free energy of formation

**hf:** 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>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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