

# 2-Naphthalenol, decahydro-

<b>Other names:</b>	2-Naphthol, decahydro- Decahydro-«beta»-naphthol 2-Decalol 2-Hydroxydecalin Decahydro-2-naphthol Decahydronaphthol-2 Naphthalen-2-ol, decahydro- 2-Decalinol Decahydronaphthol-2 Decahydro-2-naphthalenol «beta»-Naphthol, decahydro Decaline, 2-hydroxy NSC 2332 NSC 71562 NSC 84186 «beta»-Decalol trans-decahydro-2-naphthol
<b>Inchi:</b>	InChI=1S/C10H18O/c11-10-6-5-8-3-1-2-4-9(8)7-10/h8-11H,1-7H2
<b>InchiKey:</b>	UPMAOXLCTXPPAG-UHFFFAOYSA-N
<b>Formula:</b>	C10H18O
<b>SMILES:</b>	OC1CCC2CCCCC2C1
<b>Mol. weight [g/mol]:</b>	154.25
<b>CAS:</b>	825-51-4

## Physical Properties

Property code	Value	Unit	Source
gf	-38.11	kJ/mol	Joback Method
hf	-301.34	kJ/mol	Joback Method
hfus	14.68	kJ/mol	Joback Method
hvap	54.74	kJ/mol	Joback Method
log10ws	-2.69		Crippen Method
logp	2.338		Crippen Method
mcvol	135.910	ml/mol	McGowan Method
pc	3231.98	kPa	Joback Method
rinpol	1280.00		NIST Webbook
rinpol	1323.00		NIST Webbook
tb	546.27	K	Joback Method

tc	752.73	K	Joback Method
tf	280.84	K	Joback Method
vc	0.495	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	356.72	J/mol×K	546.27	Joback Method
cpg	375.30	J/mol×K	580.68	Joback Method
cpg	392.80	J/mol×K	615.09	Joback Method
cpg	409.25	J/mol×K	649.50	Joback Method
cpg	424.71	J/mol×K	683.91	Joback Method
cpg	439.21	J/mol×K	718.32	Joback Method
cpg	452.80	J/mol×K	752.73	Joback Method
dvisc	0.0185243	Paxs	280.84	Joback Method
dvisc	0.0053952	Paxs	325.08	Joback Method
dvisc	0.0021116	Paxs	369.32	Joback Method
dvisc	0.0010101	Paxs	413.56	Joback Method
dvisc	0.0005572	Paxs	457.79	Joback Method
dvisc	0.0003414	Paxs	502.03	Joback Method
dvisc	0.0002264	Paxs	546.27	Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	382.20	K	1.90	NIST Webbook

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C825514&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C825514&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>
<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>

# 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>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>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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