

# 3,5,1,7-[1,2,3,4]Butanetetraylnaphthalen-3(2H)-ol,

Other names:  
**octahydro**

Diamantan-4-ol

InChI: InChI=1S/C14H20O/c15-14-4-11-8-1-7-2-9(11)13(6-14)10(3-7)12(8)5-14/h7-13,15H,1-6H

InchiKey: HLMNGNITCLNFFJ-UHFFFAOYSA-N

Formula: C14H20O

SMILES: OC12CC3C4CC5CC3C(C1)C(C5)C4C2

Mol. weight [g/mol]: 204.31

CAS: 30651-03-7

## Physical Properties

Property code	Value	Unit	Source
chs	-7932.50 ± 1.60	kJ/mol	NIST Webbook
gf	217.41	kJ/mol	Joback Method
hf	-317.10 ± 1.60	kJ/mol	NIST Webbook
hfs	-435.00 ± 1.60	kJ/mol	NIST Webbook
hfus	25.79	kJ/mol	Joback Method
hsub	117.90	kJ/mol	NIST Webbook
hsub	117.80 ± 0.20	kJ/mol	NIST Webbook
hvap	60.75	kJ/mol	Joback Method
log10ws	-2.84		Crippen Method
logp	2.440		Crippen Method
mcvol	159.690	ml/mol	McGowan Method
pc	2773.00	kPa	Joback Method
tb	627.56	K	Joback Method
tc	836.94	K	Joback Method
tf	484.00 ± 1.00	K	NIST Webbook
vc	0.626	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	596.39	J/mol×K	802.04	Joback Method
cpg	513.33	J/mol×K	627.56	Joback Method
cpg	531.83	J/mol×K	662.46	Joback Method
cpg	549.16	J/mol×K	697.35	Joback Method

cpg	565.54	J/mol×K	732.25	Joback Method
cpg	581.21	J/mol×K	767.15	Joback Method
cpg	611.31	J/mol×K	836.94	Joback Method
hfust	16.40	kJ/mol	484.00	NIST Webbook
hsubt	117.80 ± 0.20	kJ/mol	337.50	NIST Webbook

## Sources

<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.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=C30651037&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C30651037&amp;Units=SI</a>

## Legend

<b>chs:</b>	Standard solid enthalpy of combustion
<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfs:</b>	Solid phase enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hfust:</b>	Enthalpy of fusion at a given temperature
<b>hsub:</b>	Enthalpy of sublimation at standard conditions
<b>hsubt:</b>	Enthalpy of sublimation at a given temperature
<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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