

# 1,4,5,8,9,10-Hexahydroanthracene

<b>Other names:</b>	Anthracene, 1,4,5,8,9,10-hexahydro-
<b>Inchi:</b>	InChI=1S/C14H16/c1-2-6-12-10-14-8-4-3-7-13(14)9-11(12)5-1/h1-4H,5-10H2
<b>InchiKey:</b>	LNRAWXJRDXDHJN-UHFFFAOYSA-N
<b>Formula:</b>	C14H16
<b>SMILES:</b>	C1=CCC2=C(C1)CC1=C(CC=CC1)C2
<b>Mol. weight [g/mol]:</b>	184.28
<b>CAS:</b>	5910-28-1

## Physical Properties

Property code	Value	Unit	Source
gf	293.20	kJ/mol	Joback Method
hf	101.57	kJ/mol	Joback Method
hfus	16.04	kJ/mol	Joback Method
hvap	52.10	kJ/mol	Joback Method
ie	8.16	eV	NIST Webbook
log10ws	-4.78		Crippen Method
logp	4.073		Crippen Method
mcvol	158.340	ml/mol	McGowan Method
pc	2878.12	kPa	Joback Method
tb	591.86	K	Joback Method
tc	838.03	K	Joback Method
tf	349.60	K	Joback Method
vc	0.598	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	395.20	J/molxK	591.86	Joback Method
cpg	475.95	J/molxK	797.00	Joback Method
cpg	462.22	J/molxK	755.97	Joback Method
cpg	447.40	J/molxK	714.95	Joback Method
cpg	431.37	J/molxK	673.92	Joback Method
cpg	414.02	J/molxK	632.89	Joback Method
cpg	488.74	J/molxK	838.03	Joback Method

dvisc	0.0004386	Paxs	591.86	Joback Method
dvisc	0.0005153	Paxs	551.48	Joback Method
dvisc	0.0006210	Paxs	511.11	Joback Method
dvisc	0.0007728	Paxs	470.73	Joback Method
dvisc	0.0010020	Paxs	430.35	Joback Method
dvisc	0.0013709	Paxs	389.98	Joback Method
dvisc	0.0020165	Paxs	349.60	Joback Method

## Sources

<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=C5910281&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C5910281&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</a>

## Legend

<b>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</b>	Enthalpy of fusion at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>ie:</b>	Ionization energy
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</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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