

# cis-Anthracene, 1,2,3,4-tetrahydro-1,2-diol, diacetate

Inchi:	InChI=1S/C18H18O4/c1-11(19)21-17-8-7-15-9-13-5-3-4-6-14(13)10-16(15)18(17)22-12(2)
InchiKey:	PNDAQWCWYKIKQO-MSOLQXFVSA-N
Formula:	C18H18O4
SMILES:	CC(=O)OC1CCc2cc3ccccc3cc2C1OC(C)=O
Mol. weight [g/mol]:	298.33

## Physical Properties

Property code	Value	Unit	Source
gf	-126.42	kJ/mol	Joback Method
hf	-453.49	kJ/mol	Joback Method
hfus	35.34	kJ/mol	Joback Method
hvap	78.99	kJ/mol	Joback Method
log10ws	-4.75		Crippen Method
logp	3.322		Crippen Method
mvol	225.280	ml/mol	McGowan Method
pc	2092.66	kPa	Joback Method
rinpol	2250.00		NIST Webbook
rinpol	2250.00		NIST Webbook
tb	825.78	K	Joback Method
tc	1059.77	K	Joback Method
tf	531.28	K	Joback Method
vc	0.854	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	678.20	J/molxK	825.78	Joback Method
cpg	741.22	J/molxK	1020.77	Joback Method
cpg	730.79	J/molxK	981.77	Joback Method
cpg	719.34	J/molxK	942.77	Joback Method
cpg	706.80	J/molxK	903.78	Joback Method
cpg	693.10	J/molxK	864.78	Joback Method
cpg	750.68	J/molxK	1059.77	Joback Method
dvisc	0.0003852	Paxs	825.78	Joback Method

dvisc	0.0004430	Paxs	776.70	Joback Method
dvisc	0.0005191	Paxs	727.61	Joback Method
dvisc	0.0006223	Paxs	678.53	Joback Method
dvisc	0.0007676	Paxs	629.45	Joback Method
dvisc	0.0009809	Paxs	580.36	Joback Method
dvisc	0.0013115	Paxs	531.28	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=R109336&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R109336&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>
<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>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>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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