

# cis-Phenanthrene, 9,10-dihydro-9-methyl-9,10-diol, 3,4-dimethoxy

InChI: InChI=1S/C17H18O4/c1-17(19)12-7-5-4-6-10(12)14-11(16(17)18)8-9-13(20-2)15(14)21-3  
InChIKey: SEDUCUXLTUOHWJO-SJORKVTESA-N

Formula: C17H18O4

SMILES: COc1ccc2c(c1OC)-c1cccc1C(C)(O)C2O

Mol. weight [g/mol]: 286.32

## Physical Properties

Property code	Value	Unit	Source
gf	-145.43	kJ/mol	Joback Method
hf	-462.07	kJ/mol	Joback Method
hfus	31.87	kJ/mol	Joback Method
hvap	97.09	kJ/mol	Joback Method
log10ws	-4.55		Crippen Method
logp	2.625		Crippen Method
mcvol	215.490	ml/mol	McGowan Method
pc	2548.19	kPa	Joback Method
rinpol	2460.00		NIST Webbook
tb	888.88	K	Joback Method
tc	1103.71	K	Joback Method
tf	591.49	K	Joback Method
vc	0.807	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	670.51	J/molxK	888.88	Joback Method
cpg	684.37	J/molxK	924.68	Joback Method
cpg	698.16	J/molxK	960.49	Joback Method
cpg	712.01	J/molxK	996.29	Joback Method
cpg	726.04	J/molxK	1032.10	Joback Method
cpg	740.39	J/molxK	1067.90	Joback Method
cpg	755.16	J/molxK	1103.71	Joback Method

# 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=R109465&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R109465&amp;Units=SI</a>

# Legend

<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>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>mccvol:</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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