

# trans-Anthracene, 1,2,3,4-tetrahydro-1,2-diol

<b>Inchi:</b>	InChI=1S/C14H14O2/c15-13-6-5-11-7-9-3-1-2-4-10(9)8-12(11)14(13)16/h1-4,7-8,13-16H
<b>InchiKey:</b>	OCFQOCVMVLZKPR-KBPBESRZSA-N
<b>Formula:</b>	C14H14O2
<b>SMILES:</b>	OC1CCc2cc3ccccc3cc2C1O
<b>Mol. weight [g/mol]:</b>	214.26

## Physical Properties

Property code	Value	Unit	Source
gf	34.10	kJ/mol	Joback Method
hf	-185.79	kJ/mol	Joback Method
hfus	27.58	kJ/mol	Joback Method
hvap	85.13	kJ/mol	Joback Method
log10ws	-3.87		Crippen Method
logp	2.180		Crippen Method
mcvol	165.780	ml/mol	McGowan Method
pc	3419.86	kPa	Joback Method
rinpol	2095.00		NIST Webbook
tb	766.04	K	Joback Method
tc	978.17	K	Joback Method
tf	463.52	K	Joback Method
vc	0.620	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	486.66	J/molxK	766.04	Joback Method
cpg	537.96	J/molxK	942.82	Joback Method
cpg	528.89	J/molxK	907.46	Joback Method
cpg	519.29	J/molxK	872.11	Joback Method
cpg	509.10	J/molxK	836.75	Joback Method
cpg	498.25	J/molxK	801.40	Joback Method
cpg	546.59	J/molxK	978.17	Joback Method
dvisc	0.0000376	Paxs	766.04	Joback Method
dvisc	0.0000551	Paxs	715.62	Joback Method

dvisc	0.0000855	Paxs	665.20	Joback Method
dvisc	0.0001427	Paxs	614.78	Joback Method
dvisc	0.0002609	Paxs	564.36	Joback Method
dvisc	0.0005368	Paxs	513.94	Joback Method
dvisc	0.0012923	Paxs	463.52	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R109698&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R109698&amp;Units=SI</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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