

# 1,4-Dewar anthracene

<b>Inchi:</b>	InChI=1S/C14H10/c1-2-4-10-8-14-12-6-5-11(12)13(14)7-9(10)3-1/h1-8,11-12H
<b>InchiKey:</b>	FMWFQVXKQPLDPL-UHFFFAOYSA-N
<b>Formula:</b>	C14H10
<b>SMILES:</b>	C1=CC2c3cc4ccccc4cc3C12
<b>Mol. weight [g/mol]:</b>	178.23
<b>CAS:</b>	52720-24-8

## Physical Properties

Property code	Value	Unit	Source
gf	442.46	kJ/mol	Joback Method
hf	288.07	kJ/mol	Joback Method
hfus	23.99	kJ/mol	Joback Method
hvap	51.77	kJ/mol	Joback Method
log10ws	-4.45		Crippen Method
logp	3.590		Crippen Method
mcvol	138.880	ml/mol	McGowan Method
pc	3191.93	kPa	Joback Method
tb	579.44	K	Joback Method
tc	822.62	K	Joback Method
tf	375.38	K	Joback Method
vc	0.549	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	339.08	J/molxK	579.44	Joback Method
cpg	353.67	J/molxK	619.97	Joback Method
cpg	366.91	J/molxK	660.50	Joback Method
cpg	379.00	J/molxK	701.03	Joback Method
cpg	390.13	J/molxK	741.56	Joback Method
cpg	400.48	J/molxK	782.09	Joback Method
cpg	410.24	J/molxK	822.62	Joback Method
dvisc	0.0019051	Paxs	375.38	Joback Method
dvisc	0.0020324	Paxs	409.39	Joback Method

dvisc	0.0021467	Paxs	443.40	Joback Method
dvisc	0.0022499	Paxs	477.41	Joback Method
dvisc	0.0023433	Paxs	511.42	Joback Method
dvisc	0.0024283	Paxs	545.43	Joback Method
dvisc	0.0025059	Paxs	579.44	Joback Method

## Sources

<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=C52720248&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C52720248&amp;Units=SI</a>
<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>

## 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>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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