

Anthracene, 1,2-dihydro-

Other names:	1,2-Dihydroanthracene
Inchi:	InChI=1S/C14H12/c1-2-6-12-10-14-8-4-3-7-13(14)9-11(12)5-1/h1-3,5-7,9-10H,4,8H2
InchiKey:	SSDCYRGPZNHDL-UHFFFAOYSA-N
Formula:	C14H12
SMILES:	C1=Cc2cc3ccccc3cc2CC1
Mol. weight [g/mol]:	180.25
CAS:	58746-82-0

Physical Properties

Property code	Value	Unit	Source
gf	353.12	kJ/mol	Joback Method
hf	217.13	kJ/mol	Joback Method
hfus	18.48	kJ/mol	Joback Method
hvap	52.68	kJ/mol	Joback Method
log10ws	-4.80		Crippen Method
logp	3.799		Crippen Method
mcvol	149.740	ml/mol	McGowan Method
pc	3114.04	kPa	Joback Method
rinpol	287.50		NIST Webbook
rinpol	287.50		NIST Webbook
rinpol	1700.00		NIST Webbook
tb	590.18	K	Joback Method
tc	841.42	K	Joback Method
tf	351.12	K	Joback Method
vc	0.570	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	354.45	J/molxK	590.18	Joback Method
cpg	370.70	J/molxK	632.05	Joback Method
cpg	385.58	J/molxK	673.93	Joback Method
cpg	399.22	J/molxK	715.80	Joback Method
cpg	411.76	J/molxK	757.67	Joback Method

cpg	423.34	J/molxK	799.55	Joback Method
cpg	434.09	J/molxK	841.42	Joback Method
dvisc	0.0016514	Paxs	351.12	Joback Method
dvisc	0.0011961	Paxs	390.96	Joback Method
dvisc	0.0009195	Paxs	430.81	Joback Method
dvisc	0.0007391	Paxs	470.65	Joback Method
dvisc	0.0006147	Paxs	510.49	Joback Method
dvisc	0.0005250	Paxs	550.34	Joback Method
dvisc	0.0004581	Paxs	590.18	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C58746820&Units=SI

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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