Anthracene, 1,2,3,4-tetrahydro-2-ol

Inchi: InChI=1S/C14H14O/c15-14-6-5-12-7-10-3-1-2-4-11(10)8-13(12)9-14/h1-4,7-8,14-15H,5-6
InchiKey: FCXKPBDLSOIBTN-UHFFFAOYSA-N
Formula: C14H14O
SMILES: OC1CCc2cc3ccccc3cc2C1
Mol. weight [g/mol]: 198.26

Physical Properties

Property code	Value	Unit	Source
gf	178.63	kJ/mol	Joback Method
hf	-13.22	kJ/mol	Joback Method
hfus	22.42	kJ/mol	Joback Method
hvap	68.76	kJ/mol	Joback Method
log10ws	-4.15		Crippen Method
logp	2.689		Crippen Method
mcvol	159.910	ml/mol	McGowan Method
pc	3195.54	kPa	Joback Method
rinpol	1905.00		NIST Webbook
tb	678.53	K	Joback Method
tc	905.54	K	Joback Method
tf	406.94	K	Joback Method
vc	0.602	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	432.27	J/mol×K	678.53	Joback Method
cpg	493.52	J/mol×K	867.70	Joback Method
cpg	482.89	J/mol×K	829.87	Joback Method
cpg	471.55	J/mol×K	792.03	Joback Method
cpg	459.39	J/mol×K	754.20	Joback Method
cpg	446.33	J/mol×K	716.36	Joback Method
cpg	503.52	J/mol×K	905.54	Joback Method
dvisc	0.0001620	Pa×s	678.53	Joback Method
dvisc	0.0002148	Pa×s	633.26	Joback Method

dvisc	0.0002975	Pa×s	588.00	Joback Method
dvisc	0.0004351	Pa×s	542.74	Joback Method
dvisc	0.0006817	Pa×s	497.47	Joback Method
dvisc	0.0011688	Pa×s	452.21	Joback Method
dvisc	0.0022591	Pa×s	406.94	Joback Method

Sources

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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=R109227&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