1H-Cyclopropa[l]phenanthrene,1a,9b-dihydro-

Inchi: InChI=1S/C15H12/c1-3-7-12-10(5-1)11-6-2-4-8-13(11)15-9-14(12)15/h1-8,14-15H,9H2
InchiKey: HJUMUYNFEXGVRH-UHFFFAOYSA-N
Formula: C15H12
SMILES: c1ccc2c(c1)-c1ccccc1C1CC21
Mol. weight [g/mol]: 192.26
CAS: 949-41-7

Physical Properties

Property code	Value	Unit	Source
gf	438.78	kJ/mol	Joback Method
hf	261.27	kJ/mol	Joback Method
hfus	24.48	kJ/mol	Joback Method
hvap	54.17	kJ/mol	Joback Method
ie	7.77	eV	NIST Webbook
log10ws	-4.98		Crippen Method
logp	3.938		Crippen Method
mcvol	152.970	ml/mol	McGowan Method
pc	2950.48	kPa	Joback Method
tb	606.59	K	Joback Method
tc	853.17	K	Joback Method
tf	383.13	K	Joback Method
vc	0.598	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	387.83	J/mol×K	606.59	Joback Method
cpg	456.15	J/mol×K	812.07	Joback Method
cpg	444.51	J/mol×K	770.97	Joback Method
cpg	432.05	J/mol×K	729.88	Joback Method
cpg	418.57	J/mol×K	688.78	Joback Method
cpg	403.90	J/mol×K	647.69	Joback Method
cpg	467.16	J/mol×K	853.17	Joback Method
dvisc	0.0020667	Pa×s	606.59	Joback Method

dvisc	0.0020701	Pa×s	569.35	Joback Method
dvisc	0.0020740	Pa×s	532.10	Joback Method
dvisc	0.0020785	Pa×s	494.86	Joback Method
dvisc	0.0020838	Pa×s	457.62	Joback Method
dvisc	0.0020900	Pa×s	420.37	Joback Method
dvisc	0.0020975	Pa×s	383.13	Joback Method

Sources

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=C949417&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume