

Phenanthrene, 9,10-dihydro-1-methyl-

Inchi:	InChI=1S/C15H14/c1-11-5-4-8-15-13(11)10-9-12-6-2-3-7-14(12)15/h2-8H,9-10H2,1H3
InchiKey:	KACMLUGSVCDKQA-UHFFFAOYSA-N
Formula:	C15H14
SMILES:	Cc1cccc2c1CCc1ccccc1-2
Mol. weight [g/mol]:	194.27
CAS:	95676-48-5

Physical Properties

Property code	Value	Unit	Source
gf	351.91	kJ/mol	Joback Method
hf	185.02	kJ/mol	Joback Method
hfus	20.68	kJ/mol	Joback Method
hvap	55.57	kJ/mol	Joback Method
log10ws	-5.21		Crippen Method
logp	3.761		Crippen Method
mcvol	163.830	ml/mol	McGowan Method
pc	2761.36	kPa	Joback Method
tb	618.04	K	Joback Method
tc	864.72	K	Joback Method
tf	374.91	K	Joback Method
vc	0.625	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	402.53	J/molxK	618.04	Joback Method
cpg	473.57	J/molxK	823.61	Joback Method
cpg	461.43	J/molxK	782.50	Joback Method
cpg	448.38	J/molxK	741.38	Joback Method
cpg	434.30	J/molxK	700.27	Joback Method
cpg	419.05	J/molxK	659.15	Joback Method
cpg	484.92	J/molxK	864.72	Joback Method
dvisc	0.0004377	Paxs	618.04	Joback Method
dvisc	0.0004990	Paxs	577.52	Joback Method

dvisc	0.0005803	Paxs	537.00	Joback Method
dvisc	0.0006916	Paxs	496.48	Joback Method
dvisc	0.0008503	Paxs	455.95	Joback Method
dvisc	0.0010885	Paxs	415.43	Joback Method
dvisc	0.0014698	Paxs	374.91	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C95676485&Units=SI
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

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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