

1H-Cyclopenta[l]phenanthrene

Inchi:	InChI=1S/C17H12/c1-3-8-14-12(6-1)13-7-2-4-9-15(13)17-11-5-10-16(14)17/h1-10H,11H2
InchiKey:	YQDSWSPiWVQKBC-UHFFFAOYSA-N
Formula:	C17H12
SMILES:	C1=Cc2c(c3ccccc3c3ccccc23)C1
Mol. weight [g/mol]:	216.28
CAS:	235-92-7

Physical Properties

Property code	Value	Unit	Source
gf	487.50	kJ/mol	Joback Method
hf	340.97	kJ/mol	Joback Method
hfus	24.98	kJ/mol	Joback Method
hvap	61.49	kJ/mol	Joback Method
log10ws	-6.18		Crippen Method
logp	4.562		Crippen Method
mcvol	172.550	ml/mol	McGowan Method
pc	2844.44	kPa	Joback Method
tb	678.51	K	Joback Method
tc	937.21	K	Joback Method
tf	433.67	K	Joback Method
vc	0.667	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	438.86	J/mol×K	678.51	Joback Method
cpg	453.60	J/mol×K	721.63	Joback Method
cpg	467.14	J/mol×K	764.74	Joback Method
cpg	479.68	J/mol×K	807.86	Joback Method
cpg	491.43	J/mol×K	850.98	Joback Method
cpg	502.61	J/mol×K	894.10	Joback Method
cpg	513.42	J/mol×K	937.21	Joback Method
dvisc	0.0019238	Pa×s	433.67	Joback Method
dvisc	0.0016313	Pa×s	474.48	Joback Method

dvisc	0.0014198	Pa×s	515.28	Joback Method
dvisc	0.0012612	Pa×s	556.09	Joback Method
dvisc	0.0011386	Pa×s	596.90	Joback Method
dvisc	0.0010415	Pa×s	637.70	Joback Method
dvisc	0.0009629	Pa×s	678.51	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C235927&Units=SI
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

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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