17-Methyl-16,17-dihydro-15H-cyclopenta(a)phena

Inchi: InChI=1S/C18H16/c1-12-6-8-16-14(12)10-11-17-15-5-3-2-4-13(15)7-9-18(16)17/h2-5,7,9
InchiKey: GRGSXXHCCGOGRX-UHFFFAOYSA-N
Formula: C18H16
SMILES: CC1CCc2c1ccc1c2ccc2ccccc21
Mol. weight [g/mol]: 232.32

Physical Properties

Property code	Value	Unit	Source
gf	458.25	kJ/mol	Joback Method
hf	242.21	kJ/mol	Joback Method
hfus	27.42	kJ/mol	Joback Method
hvap	63.12	kJ/mol	Joback Method
log10ws	-6.54		Crippen Method
logp	5.043		Crippen Method
mcvol	190.940	ml/mol	McGowan Method
pc	2402.92	kPa	Joback Method
rinpol	375.72		NIST Webbook
rinpol	374.63		NIST Webbook
tb	697.56	K	Joback Method
tc	948.16	K	Joback Method
tf	439.94	K	Joback Method
vc	0.737	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	516.99	J/mol×K	697.56	Joback Method
cpg	590.94	J/mol×K	906.40	Joback Method
cpg	577.92	J/mol×K	864.63	Joback Method
cpg	564.20	J/mol×K	822.86	Joback Method
cpg	549.59	J/mol×K	781.09	Joback Method
cpg	533.91	J/mol×K	739.33	Joback Method
cpg	603.44	J/mol×K	948.16	Joback Method
dvisc	0.0010570	Pa×s	697.56	Joback Method

dvisc	0.0011368	Pa×s	654.62	Joback Method
dvisc	0.0012352	Pa×s	611.69	Joback Method
dvisc	0.0013590	Pa×s	568.75	Joback Method
dvisc	0.0015188	Pa×s	525.81	Joback Method
dvisc	0.0017312	Pa×s	482.88	Joback Method
dvisc	0.0020243	Pa×s	439.94	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R214483&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
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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume