

# Dibenzo[*ij,rst*]phenanthro[9,10,1,2-*defg*]pentaphe

<b>Inchi:</b>	InChI=1S/C36H18/c1-3-9-21-19(7-1)23-11-5-13-25-29-18-16-28-22-10-4-2-8-20(22)24-1
<b>InchiKey:</b>	PYSXGLZMLCIVLS-UHFFFAOYSA-N
<b>Formula:</b>	C36H18
<b>SMILES:</b>	<chem>c1ccc2c(c1)c1cccc3c4ccc5c6ccccc6c6cccc7c8ccc2c(c13)c8c4c5c67</chem>
<b>Mol. weight [g/mol]:</b>	450.53
<b>CAS:</b>	313-65-5

## Physical Properties

Property code	Value	Unit	Source
gf	1230.18	kJ/mol	Joback Method
hf	941.65	kJ/mol	Joback Method
hfus	62.03	kJ/mol	Joback Method
hvap	116.15	kJ/mol	Joback Method
log10ws	-15.96		Crippen Method
logp	10.379		Crippen Method
mcvol	332.100	ml/mol	McGowan Method
pc	1579.71	kPa	Joback Method
tb	1237.32	K	Joback Method
tc	1526.05	K	Joback Method
tf	935.20	K	Joback Method
vc	1.331	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1165.67	J/molxK	1237.32	Joback Method
cpg	1478.54	J/molxK	1477.93	Joback Method
cpg	1399.76	J/molxK	1429.81	Joback Method
cpg	1329.84	J/molxK	1381.68	Joback Method
cpg	1268.03	J/molxK	1333.56	Joback Method
cpg	1213.56	J/molxK	1285.44	Joback Method
cpg	1566.95	J/molxK	1526.05	Joback Method
dvisc	0.2034462	Paxs	1237.32	Joback Method
dvisc	0.2010371	Paxs	1186.97	Joback Method

dvisc	0.1984470	Paxs	1136.61	Joback Method
dvisc	0.1956549	Paxs	1086.26	Joback Method
dvisc	0.1926365	Paxs	1035.91	Joback Method
dvisc	0.1893636	Paxs	985.55	Joback Method
dvisc	0.1858032	Paxs	935.20	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C313655&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C313655&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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