Benzo[rst]dinaphtho[8,1,2-cde!2',1',8'-klm]pentap

Other names: Benzo[rst]dinaphtho[8,1,2-cde:2',1',8'-klm]pentaphene
Inchi: InChI=1S/C36H18/c1-3-19-7-11-23-27-15-17-29-25-13-9-21-5-2-6-22-10-14-26(34(25)32
InchiKey: SVOZPKZFOATBLB-UHFFFAOYSA-N
Formula: C36H18
SMILES: c1cc2ccc3c4ccc5c6ccc7cccc8ccc(c9ccc(c%10ccc(c1)c2c3%10)c4c59)c6c78
Mol. weight [g/mol]: 450.53
CAS: 56181-09-0

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/mol×K	1237.32	Joback Method
cpg	1213.56	J/mol×K	1285.44	Joback Method
cpg	1268.03	J/mol×K	1333.56	Joback Method
cpg	1329.84	J/mol×K	1381.68	Joback Method
cpg	1399.76	J/mol×K	1429.81	Joback Method
cpg	1478.54	J/mol×K	1477.93	Joback Method
cpg	1566.95	J/mol×K	1526.05	Joback Method
dvisc	0.1858032	Pa×s	935.20	Joback Method

dvisc	0.1893636	Pa×s	985.55	Joback Method
dvisc	0.1926365	Pa×s	1035.91	Joback Method
dvisc	0.1956549	Pa×s	1086.26	Joback Method
dvisc	0.1984470	Pa×s	1136.61	Joback Method
dvisc	0.2010371	Pa×s	1186.97	Joback Method
dvisc	0.2034462	Pa×s	1237.32	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C56181090&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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