

DI 3,3'-bis(cyclopentenyl)

Inchi:	InChI=1S/C10H14/c1-2-6-9(5-1)10-7-3-4-8-10/h1,3,5,7,9-10H,2,4,6,8H2
InchiKey:	VJEREEILRKZBKE-UHFFFAOYSA-N
Formula:	C10H14
SMILES:	C1=CC(C2C=CCC2)CC1
Mol. weight [g/mol]:	134.22
CAS:	5530-97-2

Physical Properties

Property code	Value	Unit	Source
gf	166.34	kJ/mol	Joback Method
hf	-13.21	kJ/mol	Joback Method
hfus	11.97	kJ/mol	Joback Method
hvap	38.95	kJ/mol	Joback Method
log10ws	-3.02		Crippen Method
logp	2.919		Crippen Method
mcvol	121.440	ml/mol	McGowan Method
pc	3280.28	kPa	Joback Method
tb	457.08	K	Joback Method
tc	683.89	K	Joback Method
tf	225.78	K	Joback Method
vc	0.450	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	255.60	J/molxK	457.08	Joback Method
cpg	275.42	J/molxK	494.88	Joback Method
cpg	293.93	J/molxK	532.68	Joback Method
cpg	311.19	J/molxK	570.49	Joback Method
cpg	327.26	J/molxK	608.29	Joback Method
cpg	342.20	J/molxK	646.09	Joback Method
cpg	356.09	J/molxK	683.89	Joback Method
dvisc	0.0027597	Paxs	225.78	Joback Method
dvisc	0.0015608	Paxs	264.33	Joback Method

dvisc	0.0010206	Paxs	302.88	Joback Method
dvisc	0.0007345	Paxs	341.43	Joback Method
dvisc	0.0005651	Paxs	379.98	Joback Method
dvisc	0.0004563	Paxs	418.53	Joback Method
dvisc	0.0003820	Paxs	457.08	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=C5530972&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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
mccvol:	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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