

Dicyclopentadiene, 9,10-dihydro, exo

Inchi:	InChI=1S/C10H14/c1-2-9-7-4-5-8(6-7)10(9)3-1/h1-2,7-10H,3-6H2/t7?,8?,9-,10+/m1/s1
InchiKey:	HANKSFAYJLDDKP-BMNUFHGDSA-N
Formula:	C10H14
SMILES:	C1=CC2C3CCC(C3)C2C1
Mol. weight [g/mol]:	134.22

Physical Properties

Property code	Value	Unit	Source
gf	225.72	kJ/mol	Joback Method
hf	-0.05	kJ/mol	Joback Method
hfus	16.25	kJ/mol	Joback Method
hvap	37.75	kJ/mol	Joback Method
log10ws	-2.58		Crippen Method
logp	2.609		Crippen Method
mcvol	114.880	ml/mol	McGowan Method
pc	3228.31	kPa	Joback Method
rinpola	1024.00		NIST Webbook
tb	447.18	K	Joback Method
tc	663.03	K	Joback Method
tf	249.28	K	Joback Method
vc	0.444	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	257.68	J/molxK	447.18	Joback Method
cpg	277.50	J/molxK	483.15	Joback Method
cpg	295.87	J/molxK	519.13	Joback Method
cpg	312.91	J/molxK	555.10	Joback Method
cpg	328.70	J/molxK	591.08	Joback Method
cpg	343.35	J/molxK	627.05	Joback Method
cpg	356.95	J/molxK	663.03	Joback Method
dvisc	0.0004996	Paxs	249.28	Joback Method
dvisc	0.0006099	Paxs	282.26	Joback Method

dvisc	0.0007141	Paxs	315.25	Joback Method
dvisc	0.0008115	Paxs	348.23	Joback Method
dvisc	0.0009021	Paxs	381.21	Joback Method
dvisc	0.0009859	Paxs	414.20	Joback Method
dvisc	0.0010635	Paxs	447.18	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=R386459&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
mccvol:	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

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