

Bicyclopentyl-3-ene

Inchi:	InChI=1S/C10H16/c1-2-6-9(5-1)10-7-3-4-8-10/h1-2,9-10H,3-8H2
InchiKey:	ZRHQNVNKXKAXFF-UHFFFAOYSA-N
Formula:	C10H16
SMILES:	C1=CCC(C2CCCC2)C1
Mol. weight [g/mol]:	136.23

Physical Properties

Property code	Value	Unit	Source
gf	136.38	kJ/mol	Joback Method
hf	-70.99	kJ/mol	Joback Method
hfus	10.75	kJ/mol	Joback Method
hvap	38.66	kJ/mol	Joback Method
log10ws	-3.17		Crippen Method
logp	3.143		Crippen Method
mcvol	125.740	ml/mol	McGowan Method
pc	3149.09	kPa	Joback Method
rinpol	1094.00		NIST Webbook
rinpol	1066.00		NIST Webbook
rinpol	1066.00		NIST Webbook
tb	457.92	K	Joback Method
tc	682.33	K	Joback Method
tf	225.02	K	Joback Method
vc	0.464	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	270.84	J/mol×K	457.92	Joback Method
cpg	291.97	J/mol×K	495.32	Joback Method
cpg	311.75	J/mol×K	532.72	Joback Method
cpg	330.26	J/mol×K	570.13	Joback Method
cpg	347.55	J/mol×K	607.53	Joback Method
cpg	363.68	J/mol×K	644.93	Joback Method
cpg	378.71	J/mol×K	682.33	Joback Method

dvisc	0.0035851	Paxs	225.02	Joback Method
dvisc	0.0018914	Paxs	263.84	Joback Method
dvisc	0.0011757	Paxs	302.65	Joback Method
dvisc	0.0008142	Paxs	341.47	Joback Method
dvisc	0.0006078	Paxs	380.29	Joback Method
dvisc	0.0004790	Paxs	419.10	Joback Method
dvisc	0.0003930	Paxs	457.92	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=R136388&Units=SI

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

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