Bicyclopentylidene

Other names: Cyclopentenylidene cyclopentane
Inchi: InChI=1S/C10H16/c1-2-6-9(5-1)10-7-3-4-8-10/h1-8H2
InchiKey: AFQHVWWURXWNGD-UHFFFAOYSA-N
Formula: C10H16
SMILES: C1CCC(=C2CCCC2)C1
Mol. weight [g/mol]: 136.23
CAS: 16189-35-8

Physical Properties

Property code	Value	Unit	Source
gf	132.54	kJ/mol	Joback Method
hf	-53.25	kJ/mol	Joback Method
hfus	7.83	kJ/mol	Joback Method
hvap	40.60	kJ/mol	Joback Method
log10ws	-3.65		Crippen Method
logp	3.431		Crippen Method
mcvol	125.740	ml/mol	McGowan Method
pc	3280.28	kPa	Joback Method
rinpol	1045.00		NIST Webbook
rinpol	1045.00		NIST Webbook
tb	477.22	K	Joback Method
tc	704.90	K	Joback Method
tf	258.54	K	Joback Method
vc	0.466	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	273.16	J/mol×K	477.22	Joback Method
cpg	357.67	J/mol×K	666.95	Joback Method
cpg	343.01	J/mol×K	629.01	Joback Method
cpg	327.29	J/mol×K	591.06	Joback Method
cpg	310.45	J/mol×K	553.11	Joback Method
cpg	292.43	J/mol×K	515.17	Joback Method

cpg	371.35	J/mol×K	704.90	Joback Method
dvisc	0.0003440	Pa×s	477.22	Joback Method
dvisc	0.0004363	Pa×s	440.77	Joback Method
dvisc	0.0005774	Pa×s	404.33	Joback Method
dvisc	0.0008080	Pa×s	367.88	Joback Method
dvisc	0.0012172	Pa×s	331.43	Joback Method
dvisc	0.0020292	Pa×s	294.99	Joback Method
dvisc	0.0039070	Pa×s	258.54	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C16189358&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method: https://en.wikipedia.org/wiki/Joback_method

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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