1-Methyl-4-methylenebicyclo[3.2.1]oct-2-ene

Inchi: InChI=1S/C10H16/c1-8-3-5-10(2)6-4-9(8)7-10/h9H,1,3-7H2,2H3
InchiKey: LIJZOFXYQLXUDU-UHFFFAOYSA-N
Formula: C10H16
SMILES: C=C1CCC2(C)CCC1C2
Mol. weight [g/mol]: 136.23

Physical Properties

Property code	Value	Unit	Source
gf	178.21	kJ/mol	Joback Method
hf	-16.97	kJ/mol	Joback Method
hfus	6.27	kJ/mol	Joback Method
hvap	37.03	kJ/mol	Joback Method
log10ws	-3.17		Crippen Method
logp	3.143		Crippen Method
mcvol	125.740	ml/mol	McGowan Method
pc	3072.75	kPa	Joback Method
rinpol	964.00		NIST Webbook
tb	449.62	K	Joback Method
tc	665.98	K	Joback Method
tf	268.88	K	Joback Method
vc	0.475	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	272.14	J/mol×K	449.62	Joback Method
cpg	291.10	J/mol×K	485.68	Joback Method
cpg	308.61	J/mol×K	521.74	Joback Method
cpg	324.82	J/mol×K	557.80	Joback Method
cpg	339.87	J/mol×K	593.86	Joback Method
cpg	353.91	J/mol×K	629.92	Joback Method
cpg	367.08	J/mol×K	665.98	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R568686&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

cpg:	Ideal gas heat capacity
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