7,7-dimethyl-3-methylene-bicyclo[4.1.0]heptane

Inchi: InChI=1S/C10H16/c1-7-4-5-8-9(6-7)10(8,2)3/h8-9H,1,4-6H2,2-3H3
InchiKey: LCWMKIHBLJLORW-UHFFFAOYSA-N
Formula: C10H16
SMILES: C=C1CCC2C(C1)C2(C)C
Mol. weight [g/mol]: 136.23

Physical Properties

Property code	Value	Unit	Source
gf	182.60	kJ/mol	Joback Method
hf	-31.15	kJ/mol	Joback Method
hfus	9.44	kJ/mol	Joback Method
hvap	36.55	kJ/mol	Joback Method
log10ws	-2.93		Crippen Method
logp	2.999		Crippen Method
mcvol	125.740	ml/mol	McGowan Method
pc	2884.30	kPa	Joback Method
rinpol	1004.00		NIST Webbook
tb	440.68	K	Joback Method
tc	648.22	K	Joback Method
tf	268.16	K	Joback Method
vc	0.482	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	272.71	J/mol×K	440.68	Joback Method
cpg	291.03	J/mol×K	475.27	Joback Method
cpg	308.01	J/mol×K	509.86	Joback Method
cpg	323.77	J/mol×K	544.45	Joback Method
cpg	338.45	J/mol×K	579.04	Joback Method
cpg	352.17	J/mol×K	613.63	Joback Method
cpg	365.06	J/mol×K	648.22	Joback Method

Sources

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=R339116&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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