1,5-Dimethyl-3-exo-methylenetricyclo[2.1.0.0]pent

Other names: 1,5-Dimethyl-3-exo-methylenetricyclo[2.1.0.0^{2,5}]pentane
Inchi: InChI=1S/C8H10/c1-4-5-7(2)6(4)8(5,7)3/h5-6H,1H2,2-3H3
InchiKey: ZPKBOCGRHVGICS-UHFFFAOYSA-N
Formula: C8H10
SMILES: C=C1C2C3(C)C1C23C
Mol. weight [g/mol]: 106.17
CAS: 63001-13-8

Physical Properties

Property code	Value	Unit	Source
gf	281.52	kJ/mol	Joback Method
hf	128.97	kJ/mol	Joback Method
hfus	6.60	kJ/mol	Joback Method
hvap	30.00	kJ/mol	Joback Method
ie	8.00	eV	NIST Webbook
ie	8.54	eV	NIST Webbook
log10ws	-1.74		Crippen Method
logp	1.828		Crippen Method
mcvol	86.700	ml/mol	McGowan Method
pc	3810.39	kPa	Joback Method
tb	380.55	K	Joback Method
tc	576.53	K	Joback Method
tf	305.06	K	Joback Method
vc	0.365	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	180.90	J/mol×K	380.55	Joback Method
cpg	195.93	J/mol×K	413.21	Joback Method
cpg	209.07	J/mol×K	445.88	Joback Method
cpg	220.54	J/mol×K	478.54	Joback Method
cpg	230.55	J/mol×K	511.20	Joback Method
cpg	239.33	J/mol×K	543.87	Joback Method

cpg	247.08	J/mol×K	576.53	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=C63001138&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
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume