5,5-Dimethylbicyclo[2.1.0]pent-2-ene

Inchi: InChI=1S/C7H10/c1-7(2)5-3-4-6(5)7/h3-6H,1-2H3
InchiKey: HEINDVMVDRYAJA-UHFFFAOYSA-N
Formula: C7H10
SMILES: CC1(C)C2C=CC21
Mol. weight [g/mol]: 94.15
CAS: 74503-34-7

Physical Properties

Property code	Value	Unit	Source
gf	158.42	kJ/mol	Joback Method
hf	16.63	kJ/mol	Joback Method
hfus	8.25	kJ/mol	Joback Method
hvap	29.66	kJ/mol	Joback Method
log10ws	-1.67		Crippen Method
logp	1.828		Crippen Method
mcvol	83.470	ml/mol	McGowan Method
pc	3872.29	kPa	Joback Method
tb	363.50	K	Joback Method
tc	559.85	K	Joback Method
tf	228.47	K	Joback Method
vc	0.333	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	152.06	J/mol×K	363.50	Joback Method
cpg	166.61	J/mol×K	396.23	Joback Method
cpg	179.82	J/mol×K	428.95	Joback Method
cpg	191.81	J/mol×K	461.68	Joback Method
cpg	202.70	J/mol×K	494.40	Joback Method
cpg	212.62	J/mol×K	527.13	Joback Method
cpg	221.68	J/mol×K	559.85	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C74503347&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume