2,6-Dimethylbicyclo[3.2.1]octane

Inchi: InChI=1S/C10H18/c1-7-3-4-9-6-10(7)5-8(9)2/h7-10H,3-6H2,1-2H3
InchiKey: DRLUAQMFPMRPMU-UHFFFAOYSA-N
Formula: C10H18
SMILES: CC1CC2CC1CCC2C
Mol. weight [g/mol]: 138.25

Physical Properties

Property code	Value	Unit	Source
gf	115.20	kJ/mol	Joback Method
hf	-157.13	kJ/mol	Joback Method
hfus	15.87	kJ/mol	Joback Method
hvap	37.41	kJ/mol	Joback Method
log10ws	-2.83		Crippen Method
logp	3.079		Crippen Method
mcvol	130.040	ml/mol	McGowan Method
pc	2673.54	kPa	Joback Method
rinpol	1139.00		NIST Webbook
rinpol	1179.00		NIST Webbook
tb	440.88	K	Joback Method
tc	645.30	K	Joback Method
tf	222.82	K	Joback Method
vc	0.491	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	285.86	J/mol×K	440.88	Joback Method
cpg	378.92	J/mol×K	611.23	Joback Method
cpg	362.39	J/mol×K	577.16	Joback Method
cpg	344.86	J/mol×K	543.09	Joback Method
cpg	326.29	J/mol×K	509.02	Joback Method
cpg	306.64	J/mol×K	474.95	Joback Method
cpg	394.51	J/mol×K	645.30	Joback Method
dvisc	0.0005236	Pa×s	440.88	Joback Method

dvisc	0.0005400	Pa×s	404.54	Joback Method
dvisc	0.0005604	Pa×s	368.19	Joback Method
dvisc	0.0005863	Pa×s	331.85	Joback Method
dvisc	0.0006202	Pa×s	295.51	Joback Method
dvisc	0.0006665	Pa×s	259.16	Joback Method
dvisc	0.0007333	Pa×s	222.82	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U215282&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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