

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:	DRLUAQMFPMPMU-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	m ³ /kmol	Joback Method

Temperature Dependent Properties

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

dvisc	0.0005400	Paxs	404.54	Joback Method
dvisc	0.0005604	Paxs	368.19	Joback Method
dvisc	0.0005863	Paxs	331.85	Joback Method
dvisc	0.0006202	Paxs	295.51	Joback Method
dvisc	0.0006665	Paxs	259.16	Joback Method
dvisc	0.0007333	Paxs	222.82	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U215282&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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
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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