

Bicyclo[2.2.2]oct-2-ene, 5-(1-methylethyl)-, (1 «alpha»,4«alpha»,5«beta»)-

Inchi:	InChI=1S/C11H18/c1-8(2)11-7-9-3-5-10(11)6-4-9/h3,5,8-11H,4,6-7H2,1-2H3/t9?,10?,11-
InchiKey:	MWCYZAVQYCJVIJ-ILDUYXDCSA-N
Formula:	C11H18
SMILES:	CC(C)C1CC2C=CC1CC2
Mol. weight [g/mol]:	150.26
CAS:	106562-31-6

Physical Properties

Property code	Value	Unit	Source
gf	158.85	kJ/mol	Joback Method
hf	-51.90 ± 4.20	kJ/mol	NIST Webbook
hfus	15.09	kJ/mol	Joback Method
hvap	39.84	kJ/mol	Joback Method
log10ws	-3.10		Crippen Method
logp	3.245		Crippen Method
mcvol	139.830	ml/mol	McGowan Method
pc	2621.78	kPa	Joback Method
tb	467.15	K	Joback Method
tc	676.19	K	Joback Method
tf	224.09	K	Joback Method
vc	0.528	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	317.17	J/molxK	467.15	Joback Method
cpg	408.10	J/molxK	641.35	Joback Method
cpg	392.13	J/molxK	606.51	Joback Method
cpg	375.11	J/molxK	571.67	Joback Method
cpg	356.98	J/molxK	536.83	Joback Method
cpg	337.69	J/molxK	501.99	Joback Method
cpg	423.08	J/molxK	676.19	Joback Method
dvisc	0.0005245	Paxs	467.15	Joback Method
dvisc	0.0005731	Paxs	426.64	Joback Method

dvisc	0.0006379	Paxs	386.13	Joback Method
dvisc	0.0007280	Paxs	345.62	Joback Method
dvisc	0.0008607	Paxs	305.11	Joback Method
dvisc	0.0010709	Paxs	264.60	Joback Method
dvisc	0.0014422	Paxs	224.09	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C106562316&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
mccvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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