

Bicyclo[3.2.0]hept-1(5)-ene

Inchi:	InChI=1S/C7H10/c1-2-6-4-5-7(6)3-1/h1-5H2
InchiKey:	VQQXDBPNEPNNNS-UHFFFAOYSA-N
Formula:	C7H10
SMILES:	C1CC2=C(C1)CC2
Mol. weight [g/mol]:	94.15
CAS:	10563-10-7

Physical Properties

Property code	Value	Unit	Source
gf	143.58	kJ/mol	Joback Method
hf	173.00	kJ/mol	NIST Webbook
hfus	6.36	kJ/mol	Joback Method
hvap	33.41	kJ/mol	Joback Method
log10ws	-2.40		Crippen Method
logp	2.261		Crippen Method
mcvol	83.470	ml/mol	McGowan Method
pc	4255.16	kPa	Joback Method
tb	395.77	K	Joback Method
tc	605.46	K	Joback Method
tf	235.29	K	Joback Method
vc	0.322	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	151.07	J/mol×K	395.77	Joback Method
cpg	164.25	J/mol×K	430.72	Joback Method
cpg	176.48	J/mol×K	465.67	Joback Method
cpg	187.81	J/mol×K	500.61	Joback Method
cpg	198.32	J/mol×K	535.56	Joback Method
cpg	208.08	J/mol×K	570.51	Joback Method
cpg	217.14	J/mol×K	605.46	Joback Method
dvisc	0.0009903	Paxs	235.29	Joback Method
dvisc	0.0008152	Paxs	262.04	Joback Method

dvisc	0.0006958	Paxs	288.78	Joback Method
dvisc	0.0006100	Paxs	315.53	Joback Method
dvisc	0.0005459	Paxs	342.28	Joback Method
dvisc	0.0004964	Paxs	369.02	Joback Method
dvisc	0.0004573	Paxs	395.77	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C10563107&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
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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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