

Bicyclo[3.2.0]hept-1-ene

Inchi:	InChI=1S/C7H10/c1-2-6-4-5-7(6)3-1/h2,7H,1,3-5H2
InchiKey:	PKCMTAKKGOCYFF-UHFFFAOYSA-N
Formula:	C7H10
SMILES:	C1=C2CCC2CC1
Mol. weight [g/mol]:	94.15
CAS:	22630-75-7

Physical Properties

Property code	Value	Unit	Source
gf	145.50	kJ/mol	Joback Method
hf	167.00	kJ/mol	NIST Webbook
hfus	7.82	kJ/mol	Joback Method
hvap	32.44	kJ/mol	Joback Method
log10ws	-2.15		Crippen Method
logp	2.117		Crippen Method
mcvol	83.470	ml/mol	McGowan Method
pc	4156.97	kPa	Joback Method
tb	386.12	K	Joback Method
tc	593.57	K	Joback Method
tf	218.53	K	Joback Method
vc	0.321	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	149.72	J/mol×K	386.12	Joback Method
cpg	210.82	J/mol×K	558.99	Joback Method
cpg	200.33	J/mol×K	524.42	Joback Method
cpg	189.03	J/mol×K	489.84	Joback Method
cpg	176.87	J/mol×K	455.27	Joback Method
cpg	163.79	J/mol×K	420.69	Joback Method
cpg	220.57	J/mol×K	593.57	Joback Method
dvisc	0.0004370	Paxs	386.12	Joback Method
dvisc	0.0004598	Paxs	358.19	Joback Method

dvisc	0.0004880	Paxs	330.26	Joback Method
dvisc	0.0005236	Paxs	302.32	Joback Method
dvisc	0.0005700	Paxs	274.39	Joback Method
dvisc	0.0006325	Paxs	246.46	Joback Method
dvisc	0.0007207	Paxs	218.53	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C22630757&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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