Bicyclo[4.1.0]hept-2-ene

Inchi: InChI=1S/C7H10/c1-2-4-7-5-6(7)3-1/h1,3,6-7H,2,4-5H2
InchiKey: WJSPKNSMGLBHBW-UHFFFAOYSA-N
Formula: C7H10
SMILES: C1=CC2CC2CC1
Mol. weight [g/mol]: 94.15
CAS: 2566-57-6

Physical Properties

Property code	Value	Unit	Source
gf	147.42	kJ/mol	Joback Method
hf	119.00	kJ/mol	NIST Webbook
hfus	9.28	kJ/mol	Joback Method
hvap	31.47	kJ/mol	Joback Method
ie	8.69	eV	NIST Webbook
log10ws	-1.91		Crippen Method
logp	1.973		Crippen Method
mcvol	83.470	ml/mol	McGowan Method
pc	4062.13	kPa	Joback Method
tb	376.47	K	Joback Method
tc	581.59	K	Joback Method
tf	201.77	K	Joback Method
vc	0.320	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	147.84	J/mol×K	376.47	Joback Method
cpg	162.81	J/mol×K	410.66	Joback Method
cpg	176.76	J/mol×K	444.84	Joback Method
cpg	189.74	J/mol×K	479.03	Joback Method
cpg	201.82	J/mol×K	513.22	Joback Method
cpg	213.06	J/mol×K	547.41	Joback Method
cpg	223.52	J/mol×K	581.59	Joback Method
dvisc	0.0004629	Pa×s	201.77	Joback Method

dvisc	0.0004471	Pa×s	230.89	Joback Method
dvisc	0.0004352	Pa×s	260.00	Joback Method
dvisc	0.0004260	Pa×s	289.12	Joback Method
dvisc	0.0004186	Pa×s	318.24	Joback Method
dvisc	0.0004125	Pa×s	347.35	Joback Method
dvisc	0.0004074	Pa×s	376.47	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2566576&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
ie:	Ionization energy
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