

Bicyclo[3.2.0]hept-6-ene

Inchi: InChI=1S/C7H10/c1-2-6-4-5-7(6)3-1/h4-7H,1-3H2
InchiKey: LMULYBMQCQUKHQ-UHFFFAOYSA-N
Formula: C7H10
SMILES: C1=CC2CCCC12
Mol. weight [g/mol]: 94.15
CAS: 4927-03-1

Physical Properties

Property code	Value	Unit	Source
gf	147.42	kJ/mol	Joback Method
hf	139.70	kJ/mol	NIST Webbook
hfus	9.28	kJ/mol	Joback Method
hvap	31.47	kJ/mol	Joback Method
ie	9.37	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
rinpol	1014.00		NIST Webbook
rinpol	1014.00		NIST Webbook
tb	376.47	K	Joback Method
tc	581.59	K	Joback Method
tf	201.77	K	Joback Method
vc	0.320	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	147.84	J/molxK	376.47	Joback Method
cpg	162.81	J/molxK	410.66	Joback Method
cpg	176.76	J/molxK	444.84	Joback Method
cpg	189.74	J/molxK	479.03	Joback Method
cpg	201.82	J/molxK	513.22	Joback Method
cpg	213.06	J/molxK	547.41	Joback Method

cpg	223.52	J/mol×K	581.59	Joback Method
dvisc	0.0004629	Paxs	201.77	Joback Method
dvisc	0.0004471	Paxs	230.89	Joback Method
dvisc	0.0004352	Paxs	260.00	Joback Method
dvisc	0.0004260	Paxs	289.12	Joback Method
dvisc	0.0004186	Paxs	318.24	Joback Method
dvisc	0.0004125	Paxs	347.35	Joback Method
dvisc	0.0004074	Paxs	376.47	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C4927031&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
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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