

Bicyclo[3.1.0]hexane

Other names:	Norsabinane Northujane
Inchi:	InChI=1S/C6H10/c1-2-5-4-6(5)3-1/h5-6H,1-4H2
InchiKey:	JAPMJSVZDUYFKL-UHFFFAOYSA-N
Formula:	C6H10
SMILES:	C1CC2CC2C1
Mol. weight [g/mol]:	82.14
CAS:	285-58-5

Physical Properties

Property code	Value	Unit	Source
chl	-3795.00 ± 2.00	kJ/mol	NIST Webbook
chl	-3818.00	kJ/mol	NIST Webbook
gf	121.14	kJ/mol	Joback Method
hf	39.00 ± 3.00	kJ/mol	NIST Webbook
hfl	5.00 ± 3.00	kJ/mol	NIST Webbook
hfus	7.57	kJ/mol	Joback Method
hvap	33.50 ± 0.40	kJ/mol	NIST Webbook
hvap	34.00	kJ/mol	NIST Webbook
hvap	33.50 ± 0.40	kJ/mol	NIST Webbook
ie	9.28 ± 0.05	eV	NIST Webbook
ie	9.16 ± 0.02	eV	NIST Webbook
log10ws	-1.64		Crippen Method
logp	1.806		Crippen Method
mcvol	73.680	ml/mol	McGowan Method
pc	4249.61	kPa	Joback Method
rinpol	670.00		NIST Webbook
rinpol	670.00		NIST Webbook
rinpol	678.00		NIST Webbook
tb	353.77 ± 0.50	K	NIST Webbook
tb	355.00 ± 2.00	K	NIST Webbook
tc	545.42	K	Joback Method
tf	195.49 ± 0.30	K	NIST Webbook
vc	0.285	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	195.48	J/molxK	545.42	Joback Method
cpg	185.50	J/molxK	512.88	Joback Method
cpg	174.79	J/molxK	480.33	Joback Method
cpg	163.29	J/molxK	447.79	Joback Method
cpg	150.96	J/molxK	415.25	Joback Method
cpg	137.73	J/molxK	382.70	Joback Method
cpg	123.56	J/molxK	350.16	Joback Method
dvisc	0.0002505	Paxs	193.26	Joback Method
dvisc	0.0003599	Paxs	350.16	Joback Method
dvisc	0.0003471	Paxs	324.01	Joback Method
dvisc	0.0003327	Paxs	297.86	Joback Method
dvisc	0.0003163	Paxs	271.71	Joback Method
dvisc	0.0002976	Paxs	245.56	Joback Method
dvisc	0.0002758	Paxs	219.41	Joback Method
hvapt	33.70	kJ/mol	286.50	NIST Webbook

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C285585&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

chl:	Standard liquid enthalpy of combustion
cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfl:	Liquid phase enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions

h_{vap}:	Enthalpy of vaporization at standard conditions
h_{vapt}:	Enthalpy of vaporization at a given temperature
ie:	Ionization energy
log₁₀ws:	Log10 of Water solubility in mol/l
log_p:	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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