exo-2-Aminonorbornane

Other names:	Bicyclo[2.2.1]heptan-2-amine, exo-
	.+/-.-exo-2-Aminonorbornane
	Exo-2-aminonorborane
	exo-2-bornanamine
Inchi:	InChI=1S/C7H13N/c8-7-4-5-1-2-6(7)3-5/h5-7H,1-4,8H2/t5?,6?,7-/m1/s1
InchiKey:	JEPPYVOSGKWVSJ-KPGICGJXSA-N
Formula:	C7H13N
SMILES:	NC1CC2CCC1C2
Mol. weight [g/mol]:	111.18
CAS:	7242-92-4

Physical Properties

Property code	Value	Unit	Source
affp	935.30	kJ/mol	NIST Webbook
basg	901.30	kJ/mol	NIST Webbook
gf	176.20	kJ/mol	Joback Method
hf	-34.92	kJ/mol	Joback Method
hfus	14.32	kJ/mol	Joback Method
hvap	41.51	kJ/mol	Joback Method
ie	8.40	eV	NIST Webbook
log10ws	-1.60		Crippen Method
logp	1.134		Crippen Method
mcvol	97.750	ml/mol	McGowan Method
pc	4000.70	kPa	Joback Method
tb	445.17	K	Joback Method
tc	663.26	K	Joback Method
tf	280.03	K	Joback Method
vc	0.361	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	220.19	J/mol×K	445.17	Joback Method
cpg	236.75	J/mol×K	481.52	Joback Method

cpg	252.22	J/mol×K	517.87	Joback Method
cpg	266.65	J/mol×K	554.21	Joback Method
cpg	280.10	J/mol×K	590.56	Joback Method
cpg	292.66	J/mol×K	626.91	Joback Method
cpg	304.37	J/mol×K	663.26	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	322.20	K	1.30	NIST Webbook

Sources

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
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C7242924&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

affp: Proton affinity
basg: Gas basicity
cpg: Ideal gas heat capacity
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
tbrp: Boiling point at reduced pressure

tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume