

8-Azabicyclo[3.2.1]octane

Other names:	1«alpha»H,5«alpha»H-Nortropane Nortropan Nortropane
Inchi:	InChI=1S/C7H13N/c1-2-6-4-5-7(3-1)8-6/h6-8H,1-5H2
InchiKey:	DGGKXQQCVPAUEA-UHFFFAOYSA-N
Formula:	C7H13N
SMILES:	C1CC2CCC(C1)N2
Mol. weight [g/mol]:	111.18
CAS:	280-05-7

Physical Properties

Property code	Value	Unit	Source
gf	193.07	kJ/mol	Joback Method
hf	-16.72	kJ/mol	Joback Method
hfus	15.55	kJ/mol	Joback Method
hvap	38.10	kJ/mol	Joback Method
log10ws	-1.96		Crippen Method
logp	1.291		Crippen Method
mcvol	97.750	ml/mol	McGowan Method
pc	4135.61	kPa	Joback Method
tb	434.00	K	NIST Webbook
tc	651.02	K	Joback Method
tf	333.00	K	NIST Webbook
vc	0.362	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	201.20	J/molxK	430.13	Joback Method
cpg	218.42	J/molxK	466.94	Joback Method
cpg	234.57	J/molxK	503.76	Joback Method
cpg	249.71	J/molxK	540.57	Joback Method
cpg	263.88	J/molxK	577.39	Joback Method
cpg	277.14	J/molxK	614.20	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=C280057&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
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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