2-Propanol, 1-(cyclohexylamino)-

Other names:	Cyclohexylamine, N-propoxylated
	1-Cyclohexylamino-2-propanol
	USAF DO-19
	1-Cyclohexylaminopropan-2-ol
Inchi:	InChI=1S/C9H19NO/c1-8(11)7-10-9-5-3-2-4-6-9/h8-11H,2-7H2,1H3
InchiKey:	HFHPBMVMXFZJNO-UHFFFAOYSA-N
Formula:	C9H19NO
SMILES:	CC(O)CNC1CCCCC1
Mol. weight [g/mol]:	157.25
CAS:	103-00-4

Physical Properties

Property code	Value	Unit	Source
gf	-0.52	kJ/mol	Joback Method
hf	-278.81	kJ/mol	Joback Method
hfus	16.57	kJ/mol	Joback Method
hvap	58.78	kJ/mol	Joback Method
log10ws	-2.16		Crippen Method
logp	1.290		Crippen Method
mcvol	142.660	ml/mol	McGowan Method
pc	3213.68	kPa	Joback Method
tb	566.78	K	Joback Method
tc	760.41	K	Joback Method
tf	318.75 ± 0.10	K	NIST Webbook
vc	0.520	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	374.02	J/mol×K	566.78	Joback Method
cpg	389.88	J/mol×K	599.05	Joback Method
cpg	404.90	J/mol×K	631.32	Joback Method
cpg	419.11	J/mol×K	663.60	Joback Method
cpg	432.52	J/mol×K	695.87	Joback Method

cpg	445.17	J/mol×K	728.14	Joback Method
cpg	457.08	J/mol×K	760.41	Joback Method
hvapt	56.60	kJ/mol	467.50	NIST Webbook

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C103004&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
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
hvapt:	Enthalpy of vaporization at a given temperature
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