

1-Cyclohexylamino-2-propanol

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]:	157.26

Physical Properties

Property code	Value	Unit	Source
af	0.5859		Cheméo Relay (1.0)
hfus	16.57	kJ/mol	Joback Method
logp	1.290		Crippen Method
mcvol	142.660	ml/mol	McGowan Method
pc	3213.68	kPa	Joback Method
tb	505.17	K	Cheméo Relay (1.0)
tc	685.18	K	Cheméo Relay (1.0)
tf	318.75 ± 0.10	K	NIST Webbook

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

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C103004&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	

Legend

af:	Acentric Factor
cpg:	Ideal gas heat capacity
hfus:	Enthalpy of fusion at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
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

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