

Cyclohexylamine, N-ethyl-

Other names:	Cyclohexanamine, N-ethyl- Accelerator HX N-Cyclohexylethylamine N-Ethylcyclohexanamine N-Ethylcyclohexylamine Vulkacit HX Ethylcyclohexylamine N-Cyclohexyl-N-ethylamine (Ethylamino)cyclohexane NSC 6272 cyclohexylethyl-amine
Inchi:	InChI=1S/C8H17N/c1-2-9-8-6-4-3-5-7-8/h8-9H,2-7H2,1H3
InchiKey:	AGVKXDPPPSLISR-UHFFFAOYSA-N
Formula:	C8H17N
SMILES:	CCNC1CCCCC1
Mol. weight [g/mol]:	127.23
CAS:	5459-93-8

Physical Properties

Property code	Value	Unit	Source
gf	130.32	kJ/mol	Joback Method
hf	-100.66	kJ/mol	Joback Method
hfus	13.41	kJ/mol	Joback Method
hvap	40.27	kJ/mol	Joback Method
log10ws	-2.37		Crippen Method
logp	1.929		Crippen Method
mcvol	122.700	ml/mol	McGowan Method
pc	3199.16	kPa	Joback Method
rinpola	996.00		NIST Webbook
rinpola	996.00		NIST Webbook
tb	430.65 ± 3.00	K	NIST Webbook
tb	362.05 ± 1.00	K	NIST Webbook
tb	438.25	K	NIST Webbook
tb	437.20	K	NIST Webbook
tc	656.46	K	Joback Method
tf	229.60 ± 0.60	K	NIST Webbook
tf	229.55	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	262.85	J/mol×K	452.16	Joback Method
cpg	280.67	J/mol×K	486.21	Joback Method
cpg	297.58	J/mol×K	520.26	Joback Method
cpg	313.62	J/mol×K	554.31	Joback Method
cpg	328.80	J/mol×K	588.36	Joback Method
cpg	343.15	J/mol×K	622.41	Joback Method
cpg	356.71	J/mol×K	656.46	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C5459938&Units=SI

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
rinpola:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature

tf: Normal melting (fusion) point

vc: Critical Volume

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