

4-Morpholineethanamine

Other names:	1-(2-Aminoethyl)morpholine 1-Amino-2-morpholinoethane 2-(4-Morpholinyl)ethylamine 2-Morpholinoethylamine 4-(2-aminoethyl)morpholine Morpholine, 4-(2-aminoethyl)- N-(2-Aminoethyl)morpholine N-(Aminoethyl)morpholine N-(«beta»-Aminoethyl)morpholine N-2-Aminoethylmorfolin «beta»-Morpholinoethylamine
Inchi:	InChI=1S/C6H14N2O/c7-1-2-8-3-5-9-6-4-8/h1-7H2
InchiKey:	RWIVICVCHVMHMu-UHFFFAOYSA-N
Formula:	C6H14N2O
SMILES:	NCCN1CCOCC1
Mol. weight [g/mol]:	130.19
CAS:	2038-03-1

Physical Properties

Property code	Value	Unit	Source
log10ws	0.68		Crippen Method
logp	-0.723		Crippen Method
mcvol	110.370	ml/mol	McGowan Method
tb	478.20	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	64.00	kJ/mol	298.15	Energetic vs structural effects of aminoalkyl substituents in the morpholine

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Energetic vs structural effects of aminoalkyl substituents in the McGowan Method:	https://www.doi.org/10.1016/j.jct.2018.03.001
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2038031&Units=SI

Legend

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
tb:	Normal Boiling Point Temperature

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