MORPHOLINE METHANE SULFONIC ACID AMIDE

Other names: Morpholine methane sulfonic acid amide
4-(Methylsulfonyl)morpholine
Inchi: InChI=1S/C5H11NO3S/c1-10(7,8)6-2-4-9-5-3-6/h2-5H2,1H3
InchiKey: GVZKQMUSVBGSIZ-UHFFFAOYSA-N
Formula: C5H11NO3S
SMILES: CS(=O)(=O)N1CCOCC1
Mol. weight [g/mol]: 165.21

Physical Properties

Property code	Value	Unit	Source
hvap	74.01	kJ/mol	Cheméo Relay (1.0)
log10ws	0.04		Cheméo Relay (1.0)
logp	-0.722		Crippen Method
mcvol	114.390	ml/mol	McGowan Method
tb	583.51	K	Cheméo Relay (1.0)
tf	343.26	K	Cheméo Relay (1.0)

Sources

Cheméo Relay (1.0, beta):
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C1697343&Units=SI
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):

Legend

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
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point