

Morpholine, 4-nitroso-

Other names:	N-Nitrosomorpholine Nitrosomorpholine 4-Nitrosomorpholine Morpholine, N-nitroso- N-Nitrosomorpholin NMOR N-Nitrosomorfolin
Inchi:	InChI=1S/C4H8N2O2/c7-5-6-1-3-8-4-2-6/h1-4H2
InchiKey:	ZKXDGKXYMTYWTB-UHFFFAOYSA-N
Formula:	C4H8N2O2
SMILES:	O=NN1CCOCC1
Mol. weight [g/mol]:	116.12
CAS:	59-89-2

Physical Properties

Property code	Value	Unit	Source
chl	-2579.00 ± 2.00	kJ/mol	NIST Webbook
hf	-88.00 ± 3.00	kJ/mol	NIST Webbook
hfl	-138.00 ± 2.00	kJ/mol	NIST Webbook
log10ws	-0.23		Crippen Method
logp	0.000		Crippen Method
mcvol	83.760	ml/mol	McGowan Method
rinpol	175.79		NIST Webbook
rinpol	177.39		NIST Webbook
rinpol	175.79		NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	50.20 ± 0.40	kJ/mol	343.00	NIST Webbook

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C59892&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

chl:	Standard liquid enthalpy of combustion
hf:	Enthalpy of formation at standard conditions
hfl:	Liquid phase enthalpy of formation 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
rinpol:	Non-polar retention indices

Latest version available from:

<https://www.chemeo.com/cid/68-729-8/Morpholine-4-nitroso.pdf>

Generated by Cheméo on 2025-12-05 20:43:28.325294437 +0000 UTC m=+4715605.855335178.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.