

N-Methyl methacrylamide

Other names:	2-Propenamide, N,2-dimethyl-Acrylamide, N,2-dimethyl-N,2-dimethylacrylamide
Inchi:	InChI=1S/C5H9NO/c1-4(2)5(7)6-3/h1H2,2-3H3,(H,6,7)
InchiKey:	WFKDPJRCBCBQNT-UHFFFAOYSA-N
Formula:	C5H9NO
SMILES:	C=C(C)C(O)=NC
Mol. weight [g/mol]:	99.13
CAS:	3887-02-3

Physical Properties

Property code	Value	Unit	Source
hf	-110.69	kJ/mol	Joback Method
hvap	46.21	kJ/mol	Joback Method
log10ws	-0.75		Crippen Method
logp	1.149		Crippen Method
mcvol	88.560	ml/mol	McGowan Method
pc	3633.35	kPa	Joback Method
tb	479.10	K	Joback Method
tc	670.63	K	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hvapt	60.90	kJ/mol	422.00	NIST Webbook

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=C3887023&Units=SI>

Legend

hf:	Enthalpy of formation at standard conditions
hvap:	Enthalpy of vaporization 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
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature

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