

H2N2O

Inchi: InChI=1S/H2N2O/c1-2-3/h(H2,1,3)
InchiKey: XKLJHFLUAHKGGU-UHFFFAOYSA-N
Formula: H2N2O
SMILES: NN=O
Mol. weight [g/mol]: 46.03
CAS: 35576-91-1

Physical Properties

Property code	Value	Unit	Source
hf	-177.73	kJ/mol	Joback Method
hvap	35.33	kJ/mol	Joback Method
log10ws	-0.44		Crippen Method
logp	-0.373		Crippen Method
mcvol	32.390	ml/mol	McGowan Method
pc	7194.03	kPa	Joback Method
tb	335.33	K	Joback Method
tc	522.53	K	Joback Method

Sources

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=C35576911&Units=SI>
Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci9903071>
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Legend

hf: Enthalpy of formation 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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature

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<https://www.chemeo.com/cid/21-042-1/H2N2O.pdf>

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