

2-Propenamide, N-(hydroxymethyl)-

Other names:	Acrylamide, N-(hydroxymethyl)- Monomethylolacrylamide N-(Hydroxymethyl)acrylamide N-Methanolacrylamide N-Methylolacrylamide Uramine T 80 Yuramin T 80 Methylolacrylamide N-(Hydroxymethyl)-2-propenamide NCI-C60333 N-Methyloacrylamide NM-AMD NSC 553 N-MAM
Inchi:	InChI=1S/C4H7NO2/c1-2-4(7)5-3-6/h2,6H,1,3H2,(H,5,7)
InchiKey:	CNCOEDDPFOAUMB-UHFFFAOYSA-N
Formula:	C4H7NO2
SMILES:	<chem>C=CC(O)=NCO</chem>
Mol. weight [g/mol]:	101.10
CAS:	924-42-5

Physical Properties

Property code	Value	Unit	Source
hf	-232.49	kJ/mol	Joback Method
hvap	60.58	kJ/mol	Joback Method
log10ws	-0.09		Crippen Method
logp	0.079		Crippen Method
mcvol	80.340	ml/mol	McGowan Method
pc	4590.15	kPa	Joback Method
tb	548.52	K	Joback Method
tc	729.13	K	Joback Method

Sources

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=C924425&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

hf:	Enthalpy of formation at standard conditions
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature

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