

Urea, methoxy-

Inchi:	InChI=1S/C2H6N2O2/c1-6-4-2(3)5/h1H3,(H3,3,4,5)
InchiKey:	JOHlTMWXHJLNDE-UHFFFAOYSA-N
Formula:	C2H6N2O2
SMILES:	CONC(N)=O
Mol. weight [g/mol]:	90.08
CAS:	3272-27-3

Physical Properties

Property code	Value	Unit	Source
gf	-112.12	kJ/mol	Joback Method
hf	-242.15	kJ/mol	Joback Method
hfus	14.02	kJ/mol	Joback Method
hvap	46.28	kJ/mol	Joback Method
log10ws	-0.11		Crippen Method
logp	-0.784		Crippen Method
mcvol	66.440	ml/mol	McGowan Method
pc	5972.16	kPa	Joback Method
tb	444.15	K	Joback Method
tc	646.18	K	Joback Method
tf	320.38	K	Joback Method
vc	0.235	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	134.19	J/mol×K	444.15	Joback Method
cpg	140.19	J/mol×K	477.82	Joback Method
cpg	145.98	J/mol×K	511.49	Joback Method
cpg	151.57	J/mol×K	545.16	Joback Method
cpg	156.93	J/mol×K	578.83	Joback Method
cpg	162.07	J/mol×K	612.51	Joback Method
cpg	166.98	J/mol×K	646.18	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=C3272273&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion 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
tf:	Normal melting (fusion) point
vc:	Critical Volume

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