Methylenediformamide

Other names:	Methylenediformamide
	Formamide, N,N'-methylenebis-
	Methylenebisformamide
Inchi:	InChI=1S/C3H6N2O2/c6-2-4-1-5-3-7/h2-3H,1H2,(H,4,6)(H,5,7)
InchiKey:	QPJQPYQZFKFTHG-UHFFFAOYSA-N
Formula:	C3H6N2O2
SMILES:	O=CNCNC=O
Mol. weight [g/mol]:	102.09

Physical Properties

Property code	Value	Unit	Source
hfus	18.30	kJ/mol	Joback Method
hvap	77.57	kJ/mol	Cheméo Relay (1.0)
logp	-1.564		Crippen Method
mcvol	76.230	ml/mol	McGowan Method
tb	529.50	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	158.15	J/mol×K	465.70	Joback Method
cpg	164.68	J/mol×K	497.60	Joback Method
cpg	170.87	J/mol×K	529.51	Joback Method
cpg	176.75	J/mol×K	561.41	Joback Method
cpg	182.32	J/mol×K	593.31	Joback Method
cpg	187.58	J/mol×K	625.22	Joback Method
cpg	192.55	J/mol×K	657.12	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C6921988&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cpg:	Ideal gas heat capacity
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tb:	Normal Boiling Point Temperature