1,1'-Azodiformamide

Other names:	Formamide, 1,1'-azobis- C,C'-azodi(formamide) Diazenedicarboxamide
Inchi:	InChI=1S/C2H4N4O2/c3-1(7)5-6-2(4)8/h(H2,3,7)(H2,4,8)/b6-5+
InchiKey:	XOZUGNYVDXMRKW-AATRIKPKSA-N
Formula:	C2H4N4O2
SMILES:	NC(=O)N=NC(N)=O
Mol. weight [g/mol]:	116.08
CAS:	123-77-3

Physical Properties

Property code	Value	Unit	Source
chs	-1069.00	kJ/mol	NIST Webbook
chs	-1066.00 ± 2.00	kJ/mol	NIST Webbook
hf	-194.97	kJ/mol	Joback Method
hfs	-293.00 ± 2.00	kJ/mol	NIST Webbook
hvap	61.49	kJ/mol	Joback Method
log10ws	-0.29		Crippen Method
logp	-0.404		Crippen Method
mcvol	77.800	ml/mol	McGowan Method
pc	4876.56	kPa	Joback Method
tb	647.16	K	Joback Method
tc	895.58	K	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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=C123773&Units=SI

Legend

chs:	Standard solid enthalpy of combustion
hf:	Enthalpy of formation at standard conditions
hfs:	Solid phase 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