

Glycolamide

Inchi:	InChI=1S/C2H5NO2/c3-2(5)1-4/h4H,1H2,(H2,3,5)
InchiKey:	TZGPACAKMUCKX-UHFFFAOYSA-N
Formula:	C2H5NO2
SMILES:	NC(=O)CO
Mol. weight [g/mol]:	75.07
CAS:	598-42-5

Physical Properties

Property code	Value	Unit	Source
gf	-233.33	kJ/mol	Joback Method
hf	-315.63	kJ/mol	Joback Method
hfus	11.82	kJ/mol	Joback Method
hvap	54.11	kJ/mol	Joback Method
log10ws	0.87		Crippen Method
logp	-1.536		Crippen Method
mcvol	56.460	ml/mol	McGowan Method
pc	6967.65	kPa	Joback Method
tb	463.74	K	Joback Method
tc	653.39	K	Joback Method
tf	306.31	K	Joback Method
vc	0.202	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	113.87	J/molxK	463.74	Joback Method
cpg	118.43	J/molxK	495.35	Joback Method
cpg	122.78	J/molxK	526.96	Joback Method
cpg	126.92	J/molxK	558.56	Joback Method
cpg	130.87	J/molxK	590.17	Joback Method
cpg	134.62	J/molxK	621.78	Joback Method
cpg	138.19	J/molxK	653.39	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=C598425&Units=SI

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
mccvol:	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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