Benzenemethanimine

Other names: C6H5CH=NH
Inchi: InChI=1S/C7H7N/c8-6-7-4-2-1-3-5-7/h1-6,8H
InchiKey: AFDMODCXODAXLC-UHFFFAOYSA-N
Formula: C7H7N
SMILES: N=Cc1ccccc1
Mol. weight [g/mol]: 105.14
CAS: 16118-22-2

Physical Properties

Property code	Value	Unit	Source
affp	911.90	kJ/mol	NIST Webbook
basg	879.40	kJ/mol	NIST Webbook
gf	332.62	kJ/mol	Joback Method
hf	256.84	kJ/mol	Joback Method
hvap	45.45	kJ/mol	Joback Method
log10ws	-2.87		Crippen Method
logp	1.684		Crippen Method
mcvol	91.410	ml/mol	McGowan Method
tb	470.70	K	Joback Method
tf	277.81	K	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	171.60	J/mol×K	470.70	Joback Method
cpg	5.82	J/mol×K	100.12	Joback Method
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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=C16118222&Units=SI

Legend

affp:	Proton affinity
basg:	Gas basicity
cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	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
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point