Aziridine, 2-ethyl-

Other names:	2-Ethylaziridine
	Butyleneimine
	Ethylethylenimine
	1,2-Butylenimine
	2-Ethylethyleneimine
	2-Ethylethylenimine
Inchi:	InChI=1S/C4H9N/c1-2-4-3-5-4/h4-5H,2-3H2,1H3
InchiKey:	CSWPOLMVXVBCSV-UHFFFAOYSA-N
Formula:	C4H9N
SMILES:	CCC1CN1
Mol. weight [g/mol]:	71.12
CAS:	2549-67-9

Physical Properties

Property code	Value	Unit	Source
gf	131.26	kJ/mol	Joback Method
hf	-15.28	kJ/mol	Joback Method
hfus	13.84	kJ/mol	Joback Method
hvap	31.17	kJ/mol	Joback Method
log10ws	-0.69		Crippen Method
logp	0.368		Crippen Method
mcvol	66.340	ml/mol	McGowan Method
pc	4775.98	kPa	Joback Method
rinpol	664.00		NIST Webbook
rinpol	664.00		NIST Webbook
tb	346.21	K	Joback Method
tc	536.63	K	Joback Method
tf	257.81	K	Joback Method
vc	0.254	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	108.32	J/mol×K	346.21	Joback Method

cpg	118.03	J/mol×K	377.95	Joback Method
cpg	127.26	J/mol×K	409.68	Joback Method
cpg	136.03	J/mol×K	441.42	Joback Method
cpg	144.37	J/mol×K	473.15	Joback Method
cpg	152.28	J/mol×K	504.89	Joback Method
cpg	159.80	J/mol×K	536.63	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2549679&Units=SI
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

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume