Ethylenediamine, n-allyl-

Inchi: InChI=1S/C5H12N2/c1-2-4-7-5-3-6/h2,7H,1,3-6H2
InchiKey: YDLDORZAYJTSMR-UHFFFAOYSA-N
Formula: C5H12N2
SMILES: C=CCNCCN
Mol. weight [g/mol]: 100.16
CAS: 40510-22-3

Physical Properties

Property code	Value	Unit	Source
gf	234.90	kJ/mol	Joback Method
hf	66.16	kJ/mol	Joback Method
hfus	17.72	kJ/mol	Joback Method
hvap	43.13	kJ/mol	Joback Method
log10ws	-0.39		Crippen Method
logp	-0.279		Crippen Method
mcvol	96.970	ml/mol	McGowan Method
pc	3975.52	kPa	Joback Method
tb	433.18	K	Joback Method
tc	622.53	K	Joback Method
tf	280.27	K	Joback Method
vc	0.360	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	198.15	J/mol×K	433.18	Joback Method
cpg	208.36	J/mol×K	464.74	Joback Method
cpg	218.10	J/mol×K	496.30	Joback Method
cpg	227.36	J/mol×K	527.85	Joback Method
cpg	236.18	J/mol×K	559.41	Joback Method
cpg	244.57	J/mol×K	590.97	Joback Method
cpg	252.54	J/mol×K	622.53	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C40510223&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume