Cyclopentanol,trans-2-amino-

Inchi: InChI=1S/C5H11NO/c6-4-2-1-3-5(4)7/h4-5,7H,1-3,6H2/t4-,5-/m0/s1
InchiKey: JFFOUICIRBXFRC-WHFBIAKZSA-N
Formula: C5H11NO
SMILES: NC1CCCC1O
Mol. weight [g/mol]: 101.15
CAS: 59260-76-3

Physical Properties

Property code	Value	Unit	Source
gf	-50.31	kJ/mol	Joback Method
hf	-224.83	kJ/mol	Joback Method
hfus	13.00	kJ/mol	Joback Method
hvap	53.99	kJ/mol	Joback Method
ie	8.30	eV	NIST Webbook
log10ws	-0.73		Crippen Method
logp	-0.141		Crippen Method
mcvol	86.300	ml/mol	McGowan Method
pc	5087.49	kPa	Joback Method
tb	489.12	K	Joback Method
tc	690.75	K	Joback Method
tf	296.85	K	Joback Method
vc	0.303	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	203.28	J/mol×K	489.12	Joback Method
cpg	214.81	J/mol×K	522.72	Joback Method
cpg	225.73	J/mol×K	556.33	Joback Method
cpg	236.06	J/mol×K	589.93	Joback Method
cpg	245.83	J/mol×K	623.54	Joback Method
cpg	255.04	J/mol×K	657.14	Joback Method
cpg	263.73	J/mol×K	690.75	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C59260763&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

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
ie:	Ionization energy
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