N,n,n',n'-tetracyclohexyl ethylene diamine

Inchi: InChI=1S/C26H48N2/c1-5-13-23(14-6-1)27(24-15-7-2-8-16-24)21-22-28(25-17-9-3-10-18
InchiKey: LJVHUNUMQUEARE-UHFFFAOYSA-N
Formula: C26H48N2
SMILES: C1CCC(N(CCN(C2CCCCC2)C2CCCCC2)C2CCCCC2)CC1
Mol. weight [g/mol]: 388.67
CAS: 3261-33-4

Physical Properties

Property code	Value	Unit	Source
gf	487.40	kJ/mol	Joback Method
hf	-227.63	kJ/mol	Joback Method
hfus	36.48	kJ/mol	Joback Method
hvap	79.27	kJ/mol	Joback Method
log10ws	-7.87		Crippen Method
logp	6.921		Crippen Method
mcvol	353.720	ml/mol	McGowan Method
pc	1190.70	kPa	Joback Method
tb	897.36	K	Joback Method
tc	1135.14	K	Joback Method
tf	477.24	K	Joback Method
vc	1.260	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1311.22	J/mol×K	897.36	Joback Method
cpg	1338.57	J/mol×K	936.99	Joback Method
cpg	1363.46	J/mol×K	976.62	Joback Method
cpg	1386.04	J/mol×K	1016.25	Joback Method
cpg	1406.47	J/mol×K	1055.88	Joback Method
cpg	1424.90	J/mol×K	1095.51	Joback Method
cpg	1441.48	J/mol×K	1135.14	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=C3261334&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
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume