Aniline, N-cyclohexylcarbonyl-4-methoxy-

Other names: Cyclohexanecarboxamide, N-(4-methoxyphenyl)-
Inchi: InChI=1S/C14H19NO2/c1-17-13-9-7-12(8-10-13)15-14(16)11-5-3-2-4-6-11/h7-11H,2-6H2
InchiKey: HIXKKTIDKQKPNN-UHFFFAOYSA-N
Formula: C14H19NO2
SMILES: COc1ccc(NC(=O)C2CCCCC2)cc1
Mol. weight [g/mol]: 233.31
CAS: 315712-26-6

Physical Properties

Property code	Value	Unit	Source
gf	49.70	kJ/mol	Joback Method
hf	-244.24	kJ/mol	Joback Method
hfus	25.39	kJ/mol	Joback Method
hvap	65.72	kJ/mol	Joback Method
log10ws	-3.54		Crippen Method
logp	3.214		Crippen Method
mcvol	190.920	ml/mol	McGowan Method
pc	2545.61	kPa	Joback Method
rinpol	2137.00		NIST Webbook
rinpol	2137.00		NIST Webbook
tb	697.39	K	Joback Method
tc	931.16	K	Joback Method
tf	418.68	K	Joback Method
vc	0.704	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	541.69	J/mol×K	697.39	Joback Method
cpg	559.98	J/mol×K	736.35	Joback Method
cpg	576.88	J/mol×K	775.31	Joback Method
cpg	592.46	J/mol×K	814.28	Joback Method
cpg	606.73	J/mol×K	853.24	Joback Method
cpg	619.74	J/mol×K	892.20	Joback Method

cpg	631.54	J/mol×K	931.16	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C315712266&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