2H-1,3-Oxazine, tetrahydro-2-(4-methoxyphenyl)-

Other names: 2-(4'-Methoxyphenyl)perhydro-1,3-oxazine
Inchi: InChI=1S/C11H15NO2/c1-13-10-5-3-9(4-6-10)11-12-7-2-8-14-11/h3-6,11-12H,2,7-8H2,1
InchiKey: CATPMMKKMWYOSJ-UHFFFAOYSA-N
Formula: C11H15NO2
SMILES: COc1ccc(C2NCCCO2)cc1
Mol. weight [g/mol]: 193.24
CAS: 109086-77-3

Physical Properties

Property code	Value	Unit	Source
gf	65.56	kJ/mol	Joback Method
hf	-217.40	kJ/mol	Joback Method
hfus	28.49	kJ/mol	Joback Method
hvap	57.12	kJ/mol	Joback Method
log10ws	-2.36		Crippen Method
logp	1.704		Crippen Method
mcvol	152.950	ml/mol	McGowan Method
pc	3250.43	kPa	Joback Method
tb	600.21	K	Joback Method
tc	844.12	K	Joback Method
tf	413.88	K	Joback Method
vc	0.552	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	390.17	J/mol×K	600.21	Joback Method
cpg	408.57	J/mol×K	640.86	Joback Method
cpg	425.75	J/mol×K	681.51	Joback Method
cpg	441.73	J/mol×K	722.16	Joback Method
cpg	456.50	J/mol×K	762.81	Joback Method
cpg	470.09	J/mol×K	803.47	Joback Method
cpg	482.52	J/mol×K	844.12	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=C109086773&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