2H-1,3-oxazine-2-ethanol, 5,6-dihydro-b,b,5,5-tetramethyl-, carbanilate

Inchi: InChI=1S/C17H24N2O3/c1-16(2)10-18-14(21-11-16)17(3,4)12-22-15(20)19-13-8-6-5-7-9

InchiKey: HOUOBCVEXXXPKS-UHFFFAOYSA-N

Formula: C17H24N2O3

SMILES: CC1(C)C=NC(C(C)(C)COC(=O)Nc2ccccc2)OC1

Mol. weight [g/mol]: 304.38

CAS: 96977-69-4

Physical Properties

Property code	Value	Unit	Source
gf	134.85	kJ/mol	Joback Method
hf	-311.79	kJ/mol	Joback Method
hfus	35.25	kJ/mol	Joback Method
hvap	79.99	kJ/mol	Joback Method
log10ws	-3.78		Crippen Method
logp	3.715		Crippen Method
mcvol	244.740	ml/mol	McGowan Method
pc	2073.65	kPa	Joback Method
tb	833.20	K	Joback Method
tc	1077.12	K	Joback Method
tf	560.92	K	Joback Method
vc	0.913	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	792.93	J/mol×K	833.20	Joback Method
cpg	812.01	J/mol×K	873.85	Joback Method
cpg	830.08	J/mol×K	914.51	Joback Method
cpg	847.34	J/mol×K	955.16	Joback Method
cpg	863.97	J/mol×K	995.82	Joback Method
cpg	880.14	J/mol×K	1036.47	Joback Method
cpg	896.03	J/mol×K	1077.12	Joback Method

Sources

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=C96977694&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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