5-Phenoxymethyl-3-phenyl-2-oxazolidone

Other names: 3-Phenyl-5-phenoxymethyl-2-oxazolidinone
Inchi: InChI=1S/C16H15NO3/c18-16-17(13-7-3-1-4-8-13)11-15(20-16)12-19-14-9-5-2-6-10-14/h
InchiKey: TVCILYMEQCWTGP-UHFFFAOYSA-N
Formula: C16H15NO3
SMILES: O=C1OC(COc2ccccc2)CN1c1ccccc1
Mol. weight [g/mol]: 269.30
CAS: 1226-26-2

Physical Properties

Property code	Value	Unit	Source
chs	-8022.40 ± 5.00	kJ/mol	NIST Webbook
hfs	-417.60 ± 5.00	kJ/mol	NIST Webbook
log10ws	-3.41		Crippen Method
logp	3.091		Crippen Method
mcvol	201.210	ml/mol	McGowan Method
ss	330.00	J/mol×K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cps	310.60	J/mol×K	298.15	NIST Webbook

Sources

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C1226262&Units=SI

Legend

chs:	Standard solid enthalpy of combustion
cps:	Solid phase heat capacity
hfs:	Solid phase enthalpy of formation at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
ss:	Solid phase molar entropy at standard conditions