Hydroxylamine, o-acetyl-n-benzoyl-n-phenyl

Inchi: InChI=1S/C15H13NO3/c1-12(17)19-16(14-10-6-3-7-11-14)15(18)13-8-4-2-5-9-13/h2-11H
InchiKey: BLLRAKDWFWGBBF-UHFFFAOYSA-N
Formula: C15H13NO3
SMILES: CC(=O)ON(C(=O)c1ccccc1)c1ccccc1
Mol. weight [g/mol]: 255.27
CAS: 19958-58-8

Physical Properties

Property code	Value	Unit	Source
gf	48.18	kJ/mol	Joback Method
hf	-169.72	kJ/mol	Joback Method
hfus	30.09	kJ/mol	Joback Method
hvap	71.48	kJ/mol	Joback Method
log10ws	-3.62		Crippen Method
logp	2.812		Crippen Method
mcvol	193.680	ml/mol	McGowan Method
pc	2802.44	kPa	Joback Method
tb	738.56	K	Joback Method
tc	977.90	K	Joback Method
tf	466.21	K	Joback Method
vc	0.708	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	520.19	J/mol×K	738.56	Joback Method
cpg	534.12	J/mol×K	778.45	Joback Method
cpg	546.80	J/mol×K	818.34	Joback Method
cpg	558.30	J/mol×K	858.23	Joback Method
cpg	568.70	J/mol×K	898.12	Joback Method
cpg	578.06	J/mol×K	938.01	Joback Method
cpg	586.45	J/mol×K	977.90	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C19958588&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume