Acetamide, 2-amino-2-(o-hydroxyphenyl)-2-phenyl-

Inchi: InChI=1S/C14H14N2O2/c15-13(18)14(16,10-6-2-1-3-7-10)11-8-4-5-9-12(11)17/h1-9,17H

InchiKey: FHEOKGQRTNTICI-UHFFFAOYSA-N

Formula: C14H14N2O2

SMILES: NC(=O)C(N)(c1ccccc1)c1ccccc1O

Mol. weight [g/mol]: 242.27

CAS: 92245-40-4

Physical Properties

Property code	Value	Unit	Source
gf	144.02	kJ/mol	Joback Method
hf	-90.29	kJ/mol	Joback Method
hfus	30.46	kJ/mol	Joback Method
hvap	91.06	kJ/mol	Joback Method
log10ws	-2.35		Crippen Method
logp	1.080		Crippen Method
mcvol	188.000	ml/mol	McGowan Method
pc	4135.61	kPa	Joback Method
tb	849.40	K	Joback Method
tc	1124.95	K	Joback Method
tf	630.97	K	Joback Method
vc	0.623	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	552.43	J/mol×K	849.40	Joback Method
cpg	564.33	J/mol×K	895.33	Joback Method
cpg	575.58	J/mol×K	941.25	Joback Method
cpg	586.42	J/mol×K	987.18	Joback Method
cpg	597.08	J/mol×K	1033.10	Joback Method
cpg	607.83	J/mol×K	1079.03	Joback Method
cpg	618.90	J/mol×K	1124.95	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C92245404&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

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