Benzenemethanamine, N-hydroxy-N-(phenylmethyl)-

Other names: Dibenzylhydroxylamine
N,N-Dibenzylhydroxylamine
Hydroxylamine, N,N-dibenzyl-

Inchi: InChI=1S/C14H15NO/c16-15(11-13-7-3-1-4-8-13)12-14-9-5-2-6-10-14/h1-10,16H,11-12H

InchiKey: GXELTROTKVKZBQ-UHFFFAOYSA-N

Formula: C14H15NO

SMILES: ON(Cc1ccccc1)Cc1ccccc1

Mol. weight [g/mol]: 213.28

CAS: 621-07-8

Physical Properties

Property code	Value	Unit	Source
gf	265.78	kJ/mol	Joback Method
hf	56.07	kJ/mol	Joback Method
hfus	27.21	kJ/mol	Joback Method
hvap	70.03	kJ/mol	Joback Method
log10ws	-3.10		Crippen Method
logp	3.078		Crippen Method
mcvol	176.450	ml/mol	McGowan Method
pc	3052.41	kPa	Joback Method
tb	677.70	K	Joback Method
tc	894.41	K	Joback Method
tf	393.67	K	Joback Method
vc	0.640	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	466.68	J/mol×K	677.70	Joback Method
cpg	480.76	J/mol×K	713.82	Joback Method
cpg	493.79	J/mol×K	749.94	Joback Method
cpg	505.85	J/mol×K	786.05	Joback Method
cpg	517.02	J/mol×K	822.17	Joback Method
cpg	527.35	J/mol×K	858.29	Joback Method

cpg	536.92	J/mol×K	894.41	Joback Method

Sources

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=C621078&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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