Benzeneacetaldehyde, «alpha»-(hydroxyimino)-, oxime

Other names: «alpha»-Phenyldioxime
Glyoxal, phenyl-, dioxime
Glyoxime, phenyl-
Phenylglyoxime
2-(hydroxyimino)-2-phenylacetaldehyde oxime

Inchi: InChI=1S/C8H8N2O2/c11-9-6-8(10-12)7-4-2-1-3-5-7/h1-6,11-12H

InchiKey: MLXJSLOEWNSWKU-UHFFFAOYSA-N

Formula: C8H8N2O2

SMILES: ON=CC(=NO)c1ccccc1

Mol. weight [g/mol]: 164.16

CAS: 4589-97-3

Physical Properties

Property code	Value	Unit	Source
chs	-4276.90	kJ/mol	NIST Webbook
hf	-121.73	kJ/mol	Joback Method
hvap	75.74	kJ/mol	Joback Method
log10ws	-0.01		Crippen Method
logp	1.325		Crippen Method
mcvol	122.920	ml/mol	McGowan Method
pc	3560.02	kPa	Joback Method
tb	746.72	K	Joback Method
tc	962.97	K	Joback Method

Sources

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

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C4589973&Units=SI

Legend

chs:	Standard solid enthalpy of combustion
hf:	Enthalpy of formation 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