

# 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:

MLXJSLOEWSKU-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

McGowan Method:

<http://link.springer.com/article/10.1007/BF02311772>

NIST Webbook:

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

Crippen Method:

<http://pubs.acs.org/doi/abs/10.1021/ci9903071>

Crippen Method:

[https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)

Joback Method:

[https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)

# Legend

<b>chs:</b>	Standard solid enthalpy of combustion
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature

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