

# 4,5-Oxazolidone, 2-phenyl-, 4-phenylhydrazone

**Inchi:** InChI=1S/C15H11N3O2/c19-15-13(18-17-12-9-5-2-6-10-12)16-14(20-15)11-7-3-1-4-8-11  
**InchiKey:** JGUNDRHHCZCUPV-QGOAFFKASA-N  
**Formula:** C15H11N3O2  
**SMILES:** O=C1OC(c2ccccc2)=NC1=NNc1ccccc1  
**Mol. weight [g/mol]:** 265.27  
**CAS:** 54506-04-6

## Physical Properties

Property code	Value	Unit	Source
hf	143.03	kJ/mol	Joback Method
hvap	80.60	kJ/mol	Joback Method
log10ws	-3.10		Crippen Method
logp	2.416		Crippen Method
mcvol	192.610	ml/mol	McGowan Method
pc	2921.84	kPa	Joback Method
tb	897.85	K	Joback Method
tc	1183.82	K	Joback Method

## Sources

**Joback Method:** [https://en.wikipedia.org/wiki/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=C54506046&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)

## Legend

**hf:** Enthalpy of formation at standard conditions  
**hvap:** Enthalpy of vaporization at standard conditions  
**log10ws:** 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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