

# Phenoxyacetamide

<b>Other names:</b>	2-Phenoxyacetamide Acetamide, 2-phenoxy- Phenoxyacetic amide Alpha-phenoxyacetamide
<b>Inchi:</b>	InChI=1S/C8H9NO2/c9-8(10)6-11-7-4-2-1-3-5-7/h1-5H,6H2,(H2,9,10)
<b>InchiKey:</b>	AOPRXJXHLWYPQR-UHFFFAOYSA-N
<b>Formula:</b>	C8H9NO2
<b>SMILES:</b>	NC(=O)COc1ccccc1
<b>Mol. weight [g/mol]:</b>	151.16
<b>CAS:</b>	621-88-5

## Physical Properties

Property code	Value	Unit	Source
gf	-38.58	kJ/mol	Joback Method
hf	-182.93	kJ/mol	Joback Method
hfus	18.50	kJ/mol	Joback Method
hvap	55.47	kJ/mol	Joback Method
log10ws	-1.22		Crippen Method
logp	0.551		Crippen Method
mcvol	117.240	ml/mol	McGowan Method
pc	4151.61	kPa	Joback Method
tb	557.94	K	Joback Method
tc	787.57	K	Joback Method
tf	361.76	K	Joback Method
vc	0.428	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	265.77	J/molxK	557.94	Joback Method
cpg	277.29	J/molxK	596.21	Joback Method
cpg	288.07	J/molxK	634.48	Joback Method
cpg	298.11	J/molxK	672.75	Joback Method
cpg	307.45	J/molxK	711.03	Joback Method

cpg	316.09	J/mol×K	749.30	Joback Method
cpg	324.07	J/mol×K	787.57	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C621885&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C621885&amp;Units=SI</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion 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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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