

# 4-Pentyloxyaniline

<b>Other names:</b>	p-Pentyloxyaniline Benzenamine, 4-(pentyloxy)-
<b>Inchi:</b>	InChI=1S/C11H17NO/c1-2-3-4-9-13-11-7-5-10(12)6-8-11/h5-8H,2-4,9,12H2,1H3
<b>InchiKey:</b>	QZLNSNIHXKQIIS-UHFFFAOYSA-N
<b>Formula:</b>	C11H17NO
<b>SMILES:</b>	CCCCCOc1ccc(N)cc1
<b>Mol. weight [g/mol]:</b>	179.26
<b>CAS:</b>	39905-50-5

## Physical Properties

Property code	Value	Unit	Source
gf	105.97	kJ/mol	Joback Method
hf	-143.74	kJ/mol	Joback Method
hfus	24.28	kJ/mol	Joback Method
hvap	56.07	kJ/mol	Joback Method
log10ws	-2.90		Crippen Method
logp	2.838		Crippen Method
mcvol	157.940	ml/mol	McGowan Method
pc	2718.33	kPa	Joback Method
tb	577.69	K	Joback Method
tc	788.62	K	Joback Method
tf	358.16	K	Joback Method
vc	0.591	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	387.97	J/molxK	577.69	Joback Method
cpg	403.07	J/molxK	612.85	Joback Method
cpg	417.36	J/molxK	648.00	Joback Method
cpg	430.84	J/molxK	683.16	Joback Method
cpg	443.55	J/molxK	718.31	Joback Method
cpg	455.51	J/molxK	753.47	Joback Method
cpg	466.72	J/molxK	788.62	Joback Method

# Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	455.50 ± 0.50	K	2.70	NIST Webbook

## Sources

Joback Method:	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
McGowan Method:	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
NIST Webbook:	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C39905505&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C39905505&amp;Units=SI</a>
Crippen Method:	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
Crippen Method:	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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