

# 2-Aminodiphenyl ether

<b>Other names:</b>	2-Phenoxyaniline o-Phenoxyaniline Benzenamine, 2-phenoxy- o-Aminophenyl phenyl ether Aniline, o-phenoxy- Aniline, 2-phenoxy- 2-Ade 2-Aminophenyl phenyl ether 2-Phenoxybenzenamine NSC 39655
<b>Inchi:</b>	InChI=1S/C12H11NO/c13-11-8-4-5-9-12(11)14-10-6-2-1-3-7-10/h1-9H,13H2
<b>InchiKey:</b>	NMFFUUFPJJOWHK-UHFFFAOYSA-N
<b>Formula:</b>	C12H11NO
<b>SMILES:</b>	<chem>Nc1ccccc1Oc1ccccc1</chem>
<b>Mol. weight [g/mol]:</b>	185.22
<b>CAS:</b>	2688-84-8

## Physical Properties

Property code	Value	Unit	Source
gf	226.80	kJ/mol	Joback Method
hf	72.15	kJ/mol	Joback Method
hfus	20.91	kJ/mol	Joback Method
hvap	60.57	kJ/mol	Joback Method
log10ws	-2.74		Crippen Method
logp	3.061		Crippen Method
mcvol	148.270	ml/mol	McGowan Method
pc	3530.46	kPa	Joback Method
tb	627.25	K	Joback Method
tc	881.74	K	Joback Method
tf	318.80 ± 0.20	K	NIST Webbook
vc	0.538	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	359.85	J/mol×K	627.25	Joback Method
cpg	374.56	J/mol×K	669.67	Joback Method
cpg	388.09	J/mol×K	712.08	Joback Method
cpg	400.50	J/mol×K	754.50	Joback Method
cpg	411.83	J/mol×K	796.91	Joback Method
cpg	422.13	J/mol×K	839.33	Joback Method
cpg	431.47	J/mol×K	881.74	Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	443.20	K	2.40	NIST Webbook
tbrp	445.70	K	1.90	NIST Webbook
tbrp	445.50 ± 0.50	K	1.90	NIST Webbook

## Sources

<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=C2688848&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2688848&amp;Units=SI</a>
<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>

## 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>hvac:</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>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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