

# Benzenamine, 2-(phenylmethyl)-

<b>Other names:</b>	o-Aminodiphenylmethane o-Benzylaniline o-Toluidine, «alpha»-phenyl- 2-Benzylaniline 2-Aminodiphenylmethane
<b>Inchi:</b>	InChI=1S/C13H13N/c14-13-9-5-4-8-12(13)10-11-6-2-1-3-7-11/h1-9H,10,14H2
<b>InchiKey:</b>	DWOBGCPUQNFAFB-UHFFFAOYSA-N
<b>Formula:</b>	C13H13N
<b>SMILES:</b>	<chem>Nc1ccccc1Cc1ccccc1</chem>
<b>Mol. weight [g/mol]:</b>	183.25
<b>CAS:</b>	28059-64-5

## Physical Properties

Property code	Value	Unit	Source
gf	340.22	kJ/mol	Joback Method
hf	183.73	kJ/mol	Joback Method
hfus	22.32	kJ/mol	Joback Method
hvap	60.39	kJ/mol	Joback Method
log10ws	-3.21		Crippen Method
logp	2.860		Crippen Method
mcvol	156.490	ml/mol	McGowan Method
pc	3220.98	kPa	Joback Method
tb	627.71	K	Joback Method
tc	880.71	K	Joback Method
tf	325.00	K	NIST Webbook
vc	0.577	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	384.23	J/molxK	627.71	Joback Method
cpg	400.02	J/molxK	669.88	Joback Method
cpg	414.54	J/molxK	712.04	Joback Method
cpg	427.85	J/molxK	754.21	Joback Method

cpg	440.06	J/mol×K	796.37	Joback Method
cpg	451.22	J/mol×K	838.54	Joback Method
cpg	461.44	J/mol×K	880.71	Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	445.70	K	1.60	NIST Webbook
tbrp	463.00	K	2.90	NIST Webbook
tbrp	445.00	K	1.60	NIST Webbook

## Sources

<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=C28059645&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C28059645&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>

## 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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