

# 1,2-Diphenylethylamine

<b>Other names:</b>	1-Amino-1,2-diphenylethane Benzeneethanamine, «alpha»-phenyl- Phenethylamine, «alpha»-phenyl- «alpha»-Benzylbenzylamine «alpha»-Phenylphenethylamine
<b>Inchi:</b>	InChI=1S/C14H15N/c15-14(13-9-5-2-6-10-13)11-12-7-3-1-4-8-12/h1-10,14H,11,15H2
<b>InchiKey:</b>	DTGGNTMERRTPLR-UHFFFAOYSA-N
<b>Formula:</b>	C14H15N
<b>SMILES:</b>	NC(Cc1ccccc1)c1ccccc1
<b>Mol. weight [g/mol]:</b>	197.28
<b>CAS:</b>	25611-78-3

## Physical Properties

Property code	Value	Unit	Source
gf	355.83	kJ/mol	Joback Method
hf	169.28	kJ/mol	Joback Method
hfus	21.77	kJ/mol	Joback Method
hvap	61.56	kJ/mol	Joback Method
log10ws	-3.78		Crippen Method
logp	2.929		Crippen Method
mcvol	170.580	ml/mol	McGowan Method
pc	2969.80	kPa	Joback Method
rinpol	1660.00		NIST Webbook
rinpol	1660.00		NIST Webbook
tb	645.17	K	Joback Method
tc	896.97	K	Joback Method
tf	368.64	K	Joback Method
vc	0.626	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	435.40	J/molxK	645.17	Joback Method
cpg	452.37	J/molxK	687.14	Joback Method

cpg	467.94	J/mol×K	729.10	Joback Method
cpg	482.19	J/mol×K	771.07	Joback Method
cpg	495.23	J/mol×K	813.04	Joback Method
cpg	507.15	J/mol×K	855.01	Joback Method
cpg	518.04	J/mol×K	896.97	Joback Method

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	583.70	K	100.00	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=C25611783&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C25611783&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>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>rinpol:</b>	Non-polar retention indices
<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

**vc:** Critical Volume

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