

# N-Benzoyl-o-aminodiphenylamine

<b>Inchi:</b>	InChI=1S/C19H16N2O/c22-19(15-9-3-1-4-10-15)21-18-14-8-7-13-17(18)20-16-11-5-2-6-
<b>InchiKey:</b>	UZFYPOXSNSAIKK-UHFFFAOYSA-N
<b>Formula:</b>	C19H16N2O
<b>SMILES:</b>	O=C(Nc1ccccc1Nc1ccccc1)c1ccccc1
<b>Mol. weight [g/mol]:</b>	288.34
<b>CAS:</b>	34237-88-2

## Physical Properties

Property code	Value	Unit	Source
chs	-9753.00 ± 84.00	kJ/mol	NIST Webbook
gf	486.56	kJ/mol	Joback Method
hf	256.99	kJ/mol	Joback Method
hfs	-10.00 ± 84.00	kJ/mol	NIST Webbook
hfus	38.50	kJ/mol	Joback Method
hvap	85.00	kJ/mol	Joback Method
log10ws	-5.25		Crippen Method
logp	4.683		Crippen Method
mcvol	228.820	ml/mol	McGowan Method
pc	2563.69	kPa	Joback Method
ss	340.70	J/mol×K	NIST Webbook
tb	873.35	K	Joback Method
tc	1132.42	K	Joback Method
tf	550.92	K	Joback Method
vc	0.852	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	667.96	J/mol×K	873.35	Joback Method
cpg	681.38	J/mol×K	916.53	Joback Method
cpg	693.49	J/mol×K	959.71	Joback Method
cpg	704.44	J/mol×K	1002.89	Joback Method
cpg	714.35	J/mol×K	1046.06	Joback Method
cpg	723.37	J/mol×K	1089.24	Joback Method

cpg	731.62	J/mol×K	1132.42	Joback Method
cps	356.60	J/mol×K	298.15	NIST Webbook

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C34237882&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C34237882&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>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>

## Legend

<b>chs:</b>	Standard solid enthalpy of combustion
<b>cpg:</b>	Ideal gas heat capacity
<b>cps:</b>	Solid phase heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfs:</b>	Solid phase 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>ss:</b>	Solid phase molar entropy at standard conditions
<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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