

# Benzamide, N-ethyl-N-[(4-aminophenyl)sulfonyl]-

Inchi:	InChI=1S/C15H16N2O3S/c1-2-17(15(18)12-6-4-3-5-7-12)21(19,20)14-10-8-13(16)9-11-1
InchiKey:	URFQIOHQAZQIKQ-UHFFFAOYSA-N
Formula:	C15H16N2O3S
SMILES:	CCN(C(=O)c1ccccc1)S(=O)(=O)c1ccc(N)cc1
Mol. weight [g/mol]:	304.36

## Physical Properties

Property code	Value	Unit	Source
gf	-129.62	kJ/mol	Joback Method
hf	-355.95	kJ/mol	Joback Method
hfus	43.49	kJ/mol	Joback Method
hvap	92.26	kJ/mol	Joback Method
log10ws	-3.16		Crippen Method
logp	2.120		Crippen Method
mvol	224.310	ml/mol	McGowan Method
pc	3310.55	kPa	Joback Method
rinpol	1934.00		NIST Webbook
rinpol	1934.00		NIST Webbook
tb	787.56	K	Joback Method
tc	1020.96	K	Joback Method
tf	528.39	K	Joback Method
vc	0.839	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	626.89	J/mol×K	787.56	Joback Method
cpg	640.40	J/mol×K	826.46	Joback Method
cpg	652.59	J/mol×K	865.36	Joback Method
cpg	663.50	J/mol×K	904.26	Joback Method
cpg	673.21	J/mol×K	943.16	Joback Method
cpg	681.77	J/mol×K	982.06	Joback Method
cpg	689.24	J/mol×K	1020.96	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U374447&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U374447&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>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>hvpap:</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>rinppl:</b>	Non-polar retention indices
<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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