

# Benzenesulfonamide, 4-amino-N-(4-methoxyphenyl)-

Other names:	N1-(4-Methoxyphenyl)sulfanilamide p-Sulphanilansidide 4-Amino-N-(4-methoxyphenyl)benzenesulfonamide
Inchi:	InChI=1S/C13H14N2O3S/c1-18-12-6-4-11(5-7-12)15-19(16,17)13-8-2-10(14)3-9-13/h2-9
InchiKey:	PKCILPHWDZXVQT-UHFFFAOYSA-N
Formula:	C13H14N2O3S
SMILES:	COc1ccc(NS(=O)(=O)c2ccc(N)cc2)cc1
Mol. weight [g/mol]:	278.33
CAS:	19837-74-2

## Physical Properties

Property code	Value	Unit	Source
gf	-153.56	kJ/mol	Joback Method
hf	-359.84	kJ/mol	Joback Method
hfus	39.59	kJ/mol	Joback Method
hsub	124.00 ± 1.00	kJ/mol	NIST Webbook
hvap	99.40	kJ/mol	NIST Webbook
log10ws	-2.73		Crippen Method
logp	2.078		Crippen Method
mcvol	200.430	ml/mol	McGowan Method
pc	3782.33	kPa	Joback Method
tb	753.06	K	Joback Method
tc	988.51	K	Joback Method
tf	510.86	K	Joback Method
vc	0.755	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	543.69	J/molxK	753.06	Joback Method
cpg	557.12	J/molxK	792.30	Joback Method
cpg	569.28	J/molxK	831.54	Joback Method
cpg	580.19	J/molxK	870.78	Joback Method
cpg	589.86	J/molxK	910.02	Joback Method

cpg	598.32	J/mol×K	949.27	Joback Method
cpg	605.57	J/mol×K	988.51	Joback Method
hfust	38.60	kJ/mol	467.40	NIST Webbook

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C19837742&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C19837742&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>

## 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>hfust:</b>	Enthalpy of fusion at a given temperature
<b>hsub:</b>	Enthalpy of sublimation 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>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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