

# Benzenesulfonamide, N-methyl-N-phenyl-

<b>Other names:</b>	Benzenesulfonanilide, N-methyl-N-Methylbenzenesulfonanilide
<b>Inchi:</b>	InChI=1S/C13H13NO2S/c1-14(12-8-4-2-5-9-12)17(15,16)13-10-6-3-7-11-13/h2-11H,1H3
<b>InchiKey:</b>	KRXAPUFKQQWAGK-UHFFFAOYSA-N
<b>Formula:</b>	C13H13NO2S
<b>SMILES:</b>	CN(c1ccccc1)S(=O)(=O)c1ccccc1
<b>Mol. weight [g/mol]:</b>	247.31
<b>CAS:</b>	90-10-8

## Physical Properties

Property code	Value	Unit	Source
gf	-74.36	kJ/mol	Joback Method
hf	-224.41	kJ/mol	Joback Method
hfus	31.91	kJ/mol	Joback Method
hvap	69.76	kJ/mol	Joback Method
log10ws	-2.88		Crippen Method
logp	2.512		Crippen Method
mvol	184.580	ml/mol	McGowan Method
pc	3668.65	kPa	Joback Method
tb	610.42	K	Joback Method
tc	840.14	K	Joback Method
tf	360.14	K	Joback Method
vc	0.692	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	444.78	J/molxK	610.42	Joback Method
cpg	461.67	J/molxK	648.71	Joback Method
cpg	477.19	J/molxK	686.99	Joback Method
cpg	491.40	J/molxK	725.28	Joback Method
cpg	504.37	J/molxK	763.57	Joback Method
cpg	516.14	J/molxK	801.86	Joback Method
cpg	526.79	J/molxK	840.14	Joback Method

# Sources

<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.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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C90108&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C90108&amp;Units=SI</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>h vap:</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

Latest version available from:

<https://www.cheméo.com/cid/116-355-9/Benzenesulfonamide-N-methyl-N-phenyl.pdf>

Generated by Cheméo on 2024-04-29 11:51:14.931314931 +0000 UTC m=+16680723.851892243.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.