

# Benzenesulfonamide, 4-methyl-N-(4-methylphenyl)-

Other names:

N-(p-Toluene sulfonyl)-p-toluidide

N-(p-tolyl)-p-toluenesulphonamide

Inchi:

InChI=1S/C14H15NO2S/c1-11-3-7-13(8-4-11)15-18(16,17)14-9-5-12(2)6-10-14/h3-10,15

InchiKey:

GPLXRIVINNIQFY-UHFFFAOYSA-N

Formula:

C14H15NO2S

SMILES:

Cc1ccc(NS(=O)(=O)c2ccc(C)cc2)cc1

Mol. weight [g/mol]:

261.34

CAS:

599-86-0

## Physical Properties

Property code	Value	Unit	Source
gf	-106.59	kJ/mol	Joback Method
hf	-282.05	kJ/mol	Joback Method
hfus	35.80	kJ/mol	Joback Method
hvap	77.70	kJ/mol	Joback Method
log10ws	-3.93		Crippen Method
logp	3.104		Crippen Method
mvol	198.670	ml/mol	McGowan Method
pc	3220.98	kPa	Joback Method
tb	680.99	K	Joback Method
tc	909.90	K	Joback Method
tf	416.64	K	Joback Method
vc	0.764	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	509.36	J/molxK	680.99	Joback Method
cpg	525.04	J/molxK	719.14	Joback Method
cpg	539.47	J/molxK	757.29	Joback Method
cpg	552.70	J/molxK	795.44	Joback Method
cpg	564.77	J/molxK	833.60	Joback Method
cpg	575.70	J/molxK	871.75	Joback Method
cpg	585.53	J/molxK	909.90	Joback Method

# Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C599860&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C599860&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

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