

# Aniline, n,n-diethyl-p-(p-chlorophenylsulfonamido)-

Inchi:	InChI=1S/C16H19ClN2O2S/c1-3-19(4-2)15-9-7-14(8-10-15)18-22(20,21)16-11-5-13(17)6
InchiKey:	MXSGYWQYRMCCTM-UHFFFAOYSA-N
Formula:	C16H19ClN2O2S
SMILES:	CCN(CC)c1ccc(NS(=O)(=O)c2ccc(Cl)cc2)cc1
Mol. weight [g/mol]:	338.85
CAS:	19770-77-5

## Physical Properties

Property code	Value	Unit	Source
gf	9.10	kJ/mol	Joback Method
hf	-271.54	kJ/mol	Joback Method
hfus	48.20	kJ/mol	Joback Method
hvap	88.58	kJ/mol	Joback Method
log10ws	-4.41		Crippen Method
logp	3.987		Crippen Method
mvol	249.070	ml/mol	McGowan Method
pc	2517.59	kPa	Joback Method
tb	776.62	K	Joback Method
tc	997.88	K	Joback Method
tf	501.57	K	Joback Method
vc	0.944	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	682.81	J/mol×K	776.62	Joback Method
cpg	697.60	J/mol×K	813.50	Joback Method
cpg	711.12	J/mol×K	850.37	Joback Method
cpg	723.43	J/mol×K	887.25	Joback Method
cpg	734.57	J/mol×K	924.12	Joback Method
cpg	744.61	J/mol×K	961.00	Joback Method
cpg	753.59	J/mol×K	997.88	Joback Method

# Sources

<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=C19770775&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C19770775&amp;Units=SI</a>
<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.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>

# 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>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>mccvol:</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.chemeo.com/cid/124-762-8/Aniline-n-n-diethyl-p-p-chlorophenylsulfonamido.pdf>

Generated by Cheméo on 2024-04-28 04:12:39.280104019 +0000 UTC m=+16566808.200681334.

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