

# Aniline, n,n-dimethyl-p-(p-cyanophenylsulfonamido)-

Inchi:	InChI=1S/C15H15N3O2S/c1-18(2)14-7-5-13(6-8-14)17-21(19,20)15-9-3-12(11-16)4-10-1
InchiKey:	WZXNWYRDZUGVFZ-UHFFFAOYSA-N
Formula:	C15H15N3O2S
SMILES:	CN(C)c1ccc(NS(=O)(=O)c2ccc(C#N)cc2)cc1
Mol. weight [g/mol]:	301.36
CAS:	19770-74-2

## Physical Properties

Property code	Value	Unit	Source
gf	145.79	kJ/mol	Joback Method
hf	-70.28	kJ/mol	Joback Method
hfus	42.91	kJ/mol	Joback Method
hvap	92.45	kJ/mol	Joback Method
log10ws	-3.24		Crippen Method
logp	2.425		Crippen Method
mcvol	224.120	ml/mol	McGowan Method
pc	2814.34	kPa	Joback Method
tb	818.39	K	Joback Method
tc	1050.86	K	Joback Method
tf	525.37	K	Joback Method
vc	0.865	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	623.76	J/molxK	818.39	Joback Method
cpg	635.95	J/molxK	857.13	Joback Method
cpg	646.90	J/molxK	895.88	Joback Method
cpg	656.69	J/molxK	934.62	Joback Method
cpg	665.36	J/molxK	973.37	Joback Method
cpg	672.95	J/molxK	1012.11	Joback Method
cpg	679.53	J/molxK	1050.86	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=C19770742&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C19770742&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>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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