

# P-phenylenediamine, n,n-diethyl-n',n'-bis(p-tolylsulfonyl)-

<b>Inchi:</b>	InChI=1S/C24H28N2O4S2/c1-5-25(6-2)21-11-13-22(14-12-21)26(31(27,28)23-15-7-19(3
<b>InchiKey:</b>	SZAOAPOETWBAFD-UHFFFAOYSA-N
<b>Formula:</b>	C24H28N2O4S2
<b>SMILES:</b>	CCN(CC)c1ccc(N(S(=O)(=O)c2ccc(C)cc2)S(=O)(=O)c2ccc(C)cc2)cc1
<b>Mol. weight [g/mol]:</b>	472.62
<b>CAS:</b>	19770-88-8

## Physical Properties

Property code	Value	Unit	Source
gf	-255.98	kJ/mol	Joback Method
hf	-635.15	kJ/mol	Joback Method
hfus	67.67	kJ/mol	Joback Method
hvap	119.19	kJ/mol	Joback Method
log10ws	-6.07		Crippen Method
logp	4.734		Crippen Method
mcvol	353.880	ml/mol	McGowan Method
pc	1944.08	kPa	Joback Method
tb	963.94	K	Joback Method
tc	1191.77	K	Joback Method
tf	619.12	K	Joback Method
vc	1.343	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1094.98	J/molxK	963.94	Joback Method
cpg	1107.94	J/molxK	1001.91	Joback Method
cpg	1119.20	J/molxK	1039.88	Joback Method
cpg	1128.82	J/molxK	1077.85	Joback Method
cpg	1136.87	J/molxK	1115.83	Joback Method
cpg	1143.44	J/molxK	1153.80	Joback Method
cpg	1148.59	J/molxK	1191.77	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=C19770888&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C19770888&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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