

# 4-N,N-Bis(2-chloroethyl)amino-2-tolualdehyde

<b>Other names:</b>	o-Tolualdehyde, 4-(bis(2-chloroethyl)amino)- Benzaldehyde, 4-[bis(2-chloroethyl)amino]-2-methyl-
<b>Inchi:</b>	InChI=1S/C12H15Cl2NO/c1-10-8-12(3-2-11(10)9-16)15(6-4-13)7-5-14/h2-3,8-9H,4-7H2,
<b>InchiKey:</b>	ZQIAXDULHBLZJE-UHFFFAOYSA-N
<b>Formula:</b>	C12H15Cl2NO
<b>SMILES:</b>	<chem>Cc1cc(N(CCCI)CCCl)ccc1C=O</chem>
<b>Mol. weight [g/mol]:</b>	260.16
<b>CAS:</b>	26459-95-0

## Physical Properties

Property code	Value	Unit	Source
gf	130.71	kJ/mol	Joback Method
hf	-126.95	kJ/mol	Joback Method
hfus	33.80	kJ/mol	Joback Method
hvap	63.44	kJ/mol	Joback Method
log10ws	-3.24		Crippen Method
logp	3.092		Crippen Method
mvol	192.210	ml/mol	McGowan Method
pc	2331.52	kPa	Joback Method
tb	646.56	K	Joback Method
tc	856.87	K	Joback Method
tf	410.77	K	Joback Method
vc	0.733	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	459.44	J/molxK	646.56	Joback Method
cpg	472.66	J/molxK	681.61	Joback Method
cpg	485.04	J/molxK	716.66	Joback Method
cpg	496.61	J/molxK	751.72	Joback Method
cpg	507.42	J/molxK	786.77	Joback Method
cpg	517.51	J/molxK	821.82	Joback Method
cpg	526.92	J/molxK	856.87	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=C26459950&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C26459950&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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