

# 4-Chlorobutyl o-tolyl ether

<b>Other names:</b>	1-(4-chlorobutoxy)-2-methylbenzene
<b>Inchi:</b>	InChI=1S/C11H15ClO/c1-10-6-2-3-7-11(10)13-9-5-4-8-12/h2-3,6-7H,4-5,8-9H2,1H3
<b>InchiKey:</b>	GADHSOUSWKQCEU-UHFFFAOYSA-N
<b>Formula:</b>	C11H15ClO
<b>SMILES:</b>	Cc1cccc1OCCCCCl
<b>Mol. weight [g/mol]:</b>	198.69
<b>CAS:</b>	83732-48-3

## Physical Properties

Property code	Value	Unit	Source
gf	27.59	kJ/mol	Joback Method
hf	-193.27	kJ/mol	Joback Method
hfus	23.28	kJ/mol	Joback Method
hvap	49.81	kJ/mol	Joback Method
log10ws	-3.48		Crippen Method
logp	3.393		Crippen Method
mcvol	160.200	ml/mol	McGowan Method
pc	2470.27	kPa	Joback Method
rinpol	1506.30		NIST Webbook
tb	542.59	K	Joback Method
tc	749.09	K	Joback Method
tf	304.82	K	Joback Method
vc	0.611	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	355.02	J/mol×K	542.59	Joback Method
cpg	420.31	J/mol×K	714.68	Joback Method
cpg	408.69	J/mol×K	680.26	Joback Method
cpg	396.37	J/mol×K	645.84	Joback Method
cpg	383.33	J/mol×K	611.42	Joback Method
cpg	369.55	J/mol×K	577.01	Joback Method
cpg	431.25	J/mol×K	749.09	Joback Method

dvisc	0.0001804	Paxs	542.59	Joback Method
dvisc	0.0002283	Paxs	502.96	Joback Method
dvisc	0.0003008	Paxs	463.33	Joback Method
dvisc	0.0004173	Paxs	423.70	Joback Method
dvisc	0.0006194	Paxs	384.08	Joback Method
dvisc	0.0010069	Paxs	344.45	Joback Method
dvisc	0.0018569	Paxs	304.82	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=C83732483&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C83732483&amp;Units=SI</a>
<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.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>dvisc:</b>	Dynamic viscosity
<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>rinpol:</b>	Non-polar retention indices
<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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