

# 8-Chloro-1-octanol

<b>Other names:</b>	1-Octanol, 8-chloro- 8-chlorooctan-1-ol
<b>Inchi:</b>	InChI=1S/C8H17ClO/c9-7-5-3-1-2-4-6-8-10/h10H,1-8H2
<b>InchiKey:</b>	YDFAJMD FCCJZSI-UHFFFAOYSA-N
<b>Formula:</b>	C8H17ClO
<b>SMILES:</b>	OCCCCCCCCI
<b>Mol. weight [g/mol]:</b>	164.67
<b>CAS:</b>	23144-52-7

## Physical Properties

Property code	Value	Unit	Source
gf	-132.27	kJ/mol	Joback Method
hf	-376.42	kJ/mol	Joback Method
hfus	24.76	kJ/mol	Joback Method
hvap	54.47	kJ/mol	Joback Method
log10ws	-2.59		Crippen Method
logp	2.558		Crippen Method
mvol	141.690	ml/mol	McGowan Method
pc	2681.86	kPa	Joback Method
rinpol	1351.70		NIST Webbook
rinpol	1351.70		NIST Webbook
tb	512.05	K	Joback Method
tc	677.36	K	Joback Method
tf	270.66	K	Joback Method
vc	0.551	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	318.41	J/mol×K	512.05	Joback Method
cpg	329.53	J/mol×K	539.60	Joback Method
cpg	340.21	J/mol×K	567.15	Joback Method
cpg	350.45	J/mol×K	594.71	Joback Method
cpg	360.27	J/mol×K	622.26	Joback Method

cpg	369.68	J/mol×K	649.81	Joback Method
cpg	378.69	J/mol×K	677.36	Joback Method
dvisc	0.0261311	Paxs	270.66	Joback Method
dvisc	0.0063628	Paxs	310.89	Joback Method
dvisc	0.0021415	Paxs	351.12	Joback Method
dvisc	0.0009017	Paxs	391.35	Joback Method
dvisc	0.0004461	Paxs	431.59	Joback Method
dvisc	0.0002488	Paxs	471.82	Joback Method
dvisc	0.0001521	Paxs	512.05	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C23144527&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C23144527&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>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</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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