

# Cyclohexanol, 4-chloro-, trans-

<b>Other names:</b>	trans-4-Chlorocyclohexanol
<b>Inchi:</b>	InChI=1S/C6H11ClO/c7-5-1-3-6(8)4-2-5/h5-6,8H,1-4H2/t5-,6-
<b>InchiKey:</b>	HVPIAXWCSPHTAY-IZLXSQMJSA-N
<b>Formula:</b>	C6H11ClO
<b>SMILES:</b>	OC1CCC(Cl)CC1
<b>Mol. weight [g/mol]:</b>	134.60
<b>CAS:</b>	29538-77-0

## Physical Properties

Property code	Value	Unit	Source
gf	-132.37	kJ/mol	Joback Method
hf	-301.16	kJ/mol	Joback Method
hfus	12.49	kJ/mol	Joback Method
hvap	50.13	kJ/mol	Joback Method
log10ws	-1.87		Crippen Method
logp	1.529		Crippen Method
mcvol	102.650	ml/mol	McGowan Method
pc	4072.51	kPa	Joback Method
ripol	1636.00		NIST Webbook
tb	481.17	K	Joback Method
tc	681.95	K	Joback Method
tf	251.26	K	Joback Method
vc	0.371	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	216.66	J/mol×K	481.17	Joback Method
cpg	229.30	J/mol×K	514.63	Joback Method
cpg	241.30	J/mol×K	548.10	Joback Method
cpg	252.67	J/mol×K	581.56	Joback Method
cpg	263.43	J/mol×K	615.02	Joback Method
cpg	273.59	J/mol×K	648.48	Joback Method
cpg	283.17	J/mol×K	681.95	Joback Method

dvisc	0.0353626	Paxs	251.26	Joback Method
dvisc	0.0087916	Paxs	289.58	Joback Method
dvisc	0.0030260	Paxs	327.90	Joback Method
dvisc	0.0013020	Paxs	366.22	Joback Method
dvisc	0.0006572	Paxs	404.53	Joback Method
dvisc	0.0003734	Paxs	442.85	Joback Method
dvisc	0.0002322	Paxs	481.17	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C29538770&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C29538770&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>mvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>ripol:</b>	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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