

# 6-Chlorohexanoic acid, 4-biphenyl ester

<b>Inchi:</b>	InChI=1S/C18H19ClO2/c19-14-6-2-5-9-18(20)21-17-12-10-16(11-13-17)15-7-3-1-4-8-15/
<b>InchiKey:</b>	SVXWLQJIWBRKSA-UHFFFAOYSA-N
<b>Formula:</b>	C18H19ClO2
<b>SMILES:</b>	O=C(CCCCCCl)Oc1ccc(-c2ccccc2)cc1
<b>Mol. weight [g/mol]:</b>	302.80

## Physical Properties

Property code	Value	Unit	Source
gf	70.02	kJ/mol	Joback Method
hf	-213.80	kJ/mol	Joback Method
hfus	37.05	kJ/mol	Joback Method
hvap	74.42	kJ/mol	Joback Method
log10ws	-6.22		Crippen Method
logp	5.058		Crippen Method
mvol	236.640	ml/mol	McGowan Method
pc	1906.90	kPa	Joback Method
rinpol	2646.00		NIST Webbook
tb	783.30	K	Joback Method
tc	1011.53	K	Joback Method
tf	460.06	K	Joback Method
vc	0.900	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	652.33	J/molxK	783.30	Joback Method
cpg	667.48	J/molxK	821.34	Joback Method
cpg	681.45	J/molxK	859.38	Joback Method
cpg	694.28	J/molxK	897.42	Joback Method
cpg	706.03	J/molxK	935.45	Joback Method
cpg	716.76	J/molxK	973.49	Joback Method
cpg	726.53	J/molxK	1011.53	Joback Method
dvisc	0.0008671	Paxs	460.06	Joback Method
dvisc	0.0004838	Paxs	513.93	Joback Method

dvisc	0.0003016	Paxs	567.81	Joback Method
dvisc	0.0002040	Paxs	621.68	Joback Method
dvisc	0.0001469	Paxs	675.55	Joback Method
dvisc	0.0001110	Paxs	729.43	Joback Method
dvisc	0.0000872	Paxs	783.30	Joback Method

## Sources

<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=U354733&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U354733&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</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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