

# 2-Chlorobenzoic acid, pentadecyl ester

<b>Inchi:</b>	InChI=1S/C22H35ClO2/c1-2-3-4-5-6-7-8-9-10-11-12-13-16-19-25-22(24)20-17-14-15-18
<b>InchiKey:</b>	KHLHBSPALROSMG-UHFFFAOYSA-N
<b>Formula:</b>	C22H35ClO2
<b>SMILES:</b>	CCCCCCCCCCCCCCCCOC(=O)c1ccccc1Cl
<b>Mol. weight [g/mol]:</b>	366.96

## Physical Properties

Property code	Value	Unit	Source
gf	-8.71	kJ/mol	Joback Method
hf	-532.89	kJ/mol	Joback Method
hfus	53.37	kJ/mol	Joback Method
hvap	81.05	kJ/mol	Joback Method
log10ws	-8.26		Crippen Method
logp	7.588		Crippen Method
mcvol	316.760	ml/mol	McGowan Method
pc	1107.42	kPa	Joback Method
rinpola	2688.40		NIST Webbook
tb	848.14	K	Joback Method
tc	1045.97	K	Joback Method
tf	478.72	K	Joback Method
vc	1.232	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	976.34	J/molxK	848.14	Joback Method
cpg	993.95	J/molxK	881.11	Joback Method
cpg	1010.45	J/molxK	914.08	Joback Method
cpg	1025.89	J/molxK	947.06	Joback Method
cpg	1040.30	J/molxK	980.03	Joback Method
cpg	1053.74	J/molxK	1013.00	Joback Method
cpg	1066.24	J/molxK	1045.97	Joback Method
dvisc	0.0006960	Paxs	478.72	Joback Method
dvisc	0.0003487	Paxs	540.29	Joback Method

dvisc	0.0002012	Paxs	601.86	Joback Method
dvisc	0.0001286	Paxs	663.43	Joback Method
dvisc	0.0000887	Paxs	725.00	Joback Method
dvisc	0.0000648	Paxs	786.57	Joback Method
dvisc	0.0000496	Paxs	848.14	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U292430&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U292430&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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