

# 2-Chlorobenzoic acid, octadecyl ester

<b>Inchi:</b>	InChI=1S/C25H41ClO2/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-19-22-28-25(27)23-20
<b>InchiKey:</b>	BVHRECHWYGIHRJ-UHFFFAOYSA-N
<b>Formula:</b>	C25H41ClO2
<b>SMILES:</b>	CCCCCCCCCCCCCCCCCOC(=O)c1ccccc1Cl
<b>Mol. weight [g/mol]:</b>	409.05
<b>CAS:</b>	70153-10-5

## Physical Properties

Property code	Value	Unit	Source
gf	16.55	kJ/mol	Joback Method
hf	-594.81	kJ/mol	Joback Method
hfus	61.14	kJ/mol	Joback Method
hvap	87.72	kJ/mol	Joback Method
log10ws	-9.52		Crippen Method
logp	8.758		Crippen Method
mcvol	359.030	ml/mol	McGowan Method
pc	922.18	kPa	Joback Method
rinpol	2996.70		NIST Webbook
rinpol	2996.70		NIST Webbook
tb	916.78	K	Joback Method
tc	1122.97	K	Joback Method
tf	512.53	K	Joback Method
vc	1.401	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1160.65	J/molxK	916.78	Joback Method
cpg	1241.25	J/molxK	1088.60	Joback Method
cpg	1227.40	J/molxK	1054.24	Joback Method
cpg	1212.48	J/molxK	1019.87	Joback Method
cpg	1196.41	J/molxK	985.51	Joback Method
cpg	1179.15	J/molxK	951.14	Joback Method
cpg	1254.08	J/molxK	1122.97	Joback Method

dvisc	0.0000320	Paxs	916.78	Joback Method
dvisc	0.0000422	Paxs	849.40	Joback Method
dvisc	0.0000583	Paxs	782.03	Joback Method
dvisc	0.0000856	Paxs	714.65	Joback Method
dvisc	0.0001362	Paxs	647.28	Joback Method
dvisc	0.0002412	Paxs	579.90	Joback Method
dvisc	0.0004967	Paxs	512.53	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C70153105&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C70153105&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>

## 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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