

# Sarcosine, N-(2-chlorobenzoyl)-, dodecyl ester

<b>Inchi:</b>	InChI=1S/C22H34ClNO3/c1-3-4-5-6-7-8-9-10-11-14-17-27-21(25)18-24(2)22(26)19-15-1
<b>InchiKey:</b>	QNPJVNNCUBIYBF-UHFFFAOYSA-N
<b>Formula:</b>	C22H34ClNO3
<b>SMILES:</b>	CCCCCCCCCCCCOC(=O)CN(C)C(=O)c1ccccc1Cl
<b>Mol. weight [g/mol]:</b>	395.96

## Physical Properties

Property code	Value	Unit	Source
gf	-26.85	kJ/mol	Joback Method
hf	-577.94	kJ/mol	Joback Method
hfus	57.99	kJ/mol	Joback Method
hvap	89.83	kJ/mol	Joback Method
log10ws	-6.60		Crippen Method
logp	5.876		Crippen Method
mvol	328.310	ml/mol	McGowan Method
pc	1153.78	kPa	Joback Method
rinpol	3036.00		NIST Webbook
tb	914.45	K	Joback Method
tc	1122.44	K	Joback Method
tf	561.12	K	Joback Method
vc	1.256	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1038.17	J/molxK	914.45	Joback Method
cpg	1054.18	J/molxK	949.11	Joback Method
cpg	1069.03	J/molxK	983.78	Joback Method
cpg	1082.78	J/molxK	1018.44	Joback Method
cpg	1095.49	J/molxK	1053.11	Joback Method
cpg	1107.20	J/molxK	1087.77	Joback Method
cpg	1117.98	J/molxK	1122.44	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=U321211&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U321211&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>hvac:</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>mccol:</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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