

# Sebacic acid, di(2-chloro-5-methylphenyl) ester

Inchi:	InChI=1S/C24H28Cl2O4/c1-17-11-13-19(25)21(15-17)29-23(27)9-7-5-3-4-6-8-10-24(28)
InchiKey:	FQMFAHUSZCKPEF-UHFFFAOYSA-N
Formula:	C24H28Cl2O4
SMILES:	<chem>Cc1ccc(Cl)c(OC(=O)CCCCCCCC(=O)Oc2cc(C)ccc2Cl)c1</chem>
Mol. weight [g/mol]:	451.38

## Physical Properties

Property code	Value	Unit	Source
gf	-154.20	kJ/mol	Joback Method
hf	-632.59	kJ/mol	Joback Method
hfus	58.41	kJ/mol	Joback Method
hvap	103.30	kJ/mol	Joback Method
log10ws	-8.58		Crippen Method
logp	7.242		Crippen Method
mcvol	340.860	ml/mol	McGowan Method
pc	1187.42	kPa	Joback Method
rinqol	3455.00		NIST Webbook
tb	1049.24	K	Joback Method
tc	1286.78	K	Joback Method
tf	667.32	K	Joback Method
vc	1.310	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1056.03	J/molxK	1049.24	Joback Method
cpg	1097.71	J/molxK	1247.19	Joback Method
cpg	1092.20	J/molxK	1207.60	Joback Method
cpg	1085.32	J/molxK	1168.01	Joback Method
cpg	1077.02	J/molxK	1128.42	Joback Method
cpg	1067.27	J/molxK	1088.83	Joback Method
cpg	1101.90	J/molxK	1286.78	Joback Method
dvisc	0.0000246	Paxs	1049.24	Joback Method
dvisc	0.0000305	Paxs	985.59	Joback Method

dvisc	0.0000390	Paxs	921.93	Joback Method
dvisc	0.0000518	Paxs	858.28	Joback Method
dvisc	0.0000719	Paxs	794.63	Joback Method
dvisc	0.0001056	Paxs	730.97	Joback Method
dvisc	0.0001669	Paxs	667.32	Joback Method

## Sources

<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.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=U355310&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U355310&amp;Units=SI</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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