

# Sebacic acid, 2-chloro-5-methylphenyl isoheptyl ester

<b>Inchi:</b>	InChI=1S/C23H35ClO4/c1-18(2)11-10-16-27-22(25)12-8-6-4-5-7-9-13-23(26)28-21-17-19
<b>InchiKey:</b>	WDVHCQAVKUFGRG-UHFFFAOYSA-N
<b>Formula:</b>	C23H35ClO4
<b>SMILES:</b>	<chem>Cc1ccc(Cl)c(OC(=O)CCCCCCCC(=O)OCCCC(C)C)c1</chem>
<b>Mol. weight [g/mol]:</b>	410.98

## Physical Properties

Property code	Value	Unit	Source
gf	-246.28	kJ/mol	Joback Method
hf	-815.08	kJ/mol	Joback Method
hfus	54.84	kJ/mol	Joback Method
hvap	92.70	kJ/mol	Joback Method
log10ws	-7.43		Crippen Method
logp	6.654		Crippen Method
mvol	338.290	ml/mol	McGowan Method
pc	1066.57	kPa	Joback Method
rinpol	2946.00		NIST Webbook
rinpol	2946.00		NIST Webbook
tb	951.85	K	Joback Method
tc	1166.48	K	Joback Method
tf	559.67	K	Joback Method
vc	1.306	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1084.61	J/molxK	951.85	Joback Method
cpg	1100.12	J/molxK	987.62	Joback Method
cpg	1114.25	J/molxK	1023.39	Joback Method
cpg	1127.04	J/molxK	1059.16	Joback Method
cpg	1138.53	J/molxK	1094.93	Joback Method
cpg	1148.74	J/molxK	1130.70	Joback Method
cpg	1157.71	J/molxK	1166.48	Joback Method
dvisc	0.0003328	Paxs	559.67	Joback Method

dvisc	0.0001779	Paxs	625.03	Joback Method
dvisc	0.0001070	Paxs	690.40	Joback Method
dvisc	0.0000703	Paxs	755.76	Joback Method
dvisc	0.0000494	Paxs	821.12	Joback Method
dvisc	0.0000366	Paxs	886.49	Joback Method
dvisc	0.0000282	Paxs	951.85	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=U355303&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U355303&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.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

<b>cp<sub>g</sub>:</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>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</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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