

# Sebacic acid, 4-chloro-2-methylbenzyl 2-methylhex-3-yl ester

Inchi:	InChI=1S/C25H39ClO4/c1-5-12-23(19(2)3)30-25(28)14-11-9-7-6-8-10-13-24(27)29-18-2
InchiKey:	GOOZTEHCOAISLS-UHFFFAOYSA-N
Formula:	C25H39ClO4
SMILES:	CCCC(OC(=O)CCCCCCCCC(=O)OCc1ccc(Cl)cc1C)C(C)C
Mol. weight [g/mol]:	439.03

## Physical Properties

Property code	Value	Unit	Source
gf	-231.88	kJ/mol	Joback Method
hf	-861.64	kJ/mol	Joback Method
hfus	56.49	kJ/mol	Joback Method
hvap	96.77	kJ/mol	Joback Method
log10ws	-8.22		Crippen Method
logp	7.180		Crippen Method
mvol	366.470	ml/mol	McGowan Method
pc	949.08	kPa	Joback Method
rinpol	3006.00		NIST Webbook
rinpol	3006.00		NIST Webbook
tb	997.17	K	Joback Method
tc	1220.82	K	Joback Method
tf	567.21	K	Joback Method
vc	1.413	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1207.62	J/molxK	997.17	Joback Method
cpg	1223.46	J/molxK	1034.45	Joback Method
cpg	1237.73	J/molxK	1071.72	Joback Method
cpg	1250.50	J/molxK	1109.00	Joback Method
cpg	1261.81	J/molxK	1146.27	Joback Method
cpg	1271.69	J/molxK	1183.55	Joback Method
cpg	1280.19	J/molxK	1220.82	Joback Method
dvisc	0.0002873	Paxs	567.21	Joback Method

dvisc	0.0001416	Paxs	638.87	Joback Method
dvisc	0.0000805	Paxs	710.53	Joback Method
dvisc	0.0000507	Paxs	782.19	Joback Method
dvisc	0.0000346	Paxs	853.85	Joback Method
dvisc	0.0000250	Paxs	925.51	Joback Method
dvisc	0.0000189	Paxs	997.17	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=U380589&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U380589&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>logp:</b>	Octanol/Water partition coefficient
<b>m<sub>c</sub>vol:</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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