

# Sebacic acid, decyl 2,6-dichlorophenyl ester

<b>Inchi:</b>	InChI=1S/C26H40Cl2O4/c1-2-3-4-5-6-9-12-15-21-31-24(29)19-13-10-7-8-11-14-20-25(30)
<b>InchiKey:</b>	SWAFTMINSNSNHX-UHFFFAOYSA-N
<b>Formula:</b>	C26H40Cl2O4
<b>SMILES:</b>	CCCCCCCCCOC(=O)CCCCCCCCC(=O)Oc1c(Cl)cccc1Cl
<b>Mol. weight [g/mol]:</b>	487.50

## Physical Properties

Property code	Value	Unit	Source
gf	-230.51	kJ/mol	Joback Method
hf	-887.46	kJ/mol	Joback Method
hfus	70.33	kJ/mol	Joback Method
hvap	104.15	kJ/mol	Joback Method
log10ws	-9.55		Crippen Method
logp	8.704		Crippen Method
mvol	392.800	ml/mol	McGowan Method
pc	867.60	kPa	Joback Method
rinpol	3522.00		NIST Webbook
rinpol	3522.00		NIST Webbook
tb	1058.36	K	Joback Method
tc	1299.87	K	Joback Method
tf	638.40	K	Joback Method
vc	1.530	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1292.67	J/molxK	1058.36	Joback Method
cpg	1351.51	J/molxK	1259.62	Joback Method
cpg	1342.91	J/molxK	1219.37	Joback Method
cpg	1332.79	J/molxK	1179.11	Joback Method
cpg	1321.08	J/molxK	1138.86	Joback Method
cpg	1307.73	J/molxK	1098.61	Joback Method
cpg	1358.66	J/molxK	1299.87	Joback Method
dvisc	0.0000163	Paxs	1058.36	Joback Method

dvisc	0.0000210	Paxs	988.37	Joback Method
dvisc	0.0000281	Paxs	918.37	Joback Method
dvisc	0.0000394	Paxs	848.38	Joback Method
dvisc	0.0000587	Paxs	778.39	Joback Method
dvisc	0.0000947	Paxs	708.39	Joback Method
dvisc	0.0001697	Paxs	638.40	Joback Method

## Sources

<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>
<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=U354881&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U354881&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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