

# Phthalic acid, 2-(3-chlorophenyl)ethyl decyl ester

Inchi:	InChI=1S/C26H33ClO4/c1-2-3-4-5-6-7-8-11-18-30-25(28)23-15-9-10-16-24(23)26(29)31-
InchiKey:	LUYPOZOLSVXXGI-UHFFFAOYSA-N
Formula:	C26H33ClO4
SMILES:	CCCCCCCCCOC(=O)c1ccccc1C(=O)OCCc1cccc(Cl)c1
Mol. weight [g/mol]:	444.99

## Physical Properties

Property code	Value	Unit	Source
gf	-106.17	kJ/mol	Joback Method
hf	-635.19	kJ/mol	Joback Method
hfus	60.17	kJ/mol	Joback Method
hvap	102.04	kJ/mol	Joback Method
log10ws	-8.44		Crippen Method
logp	7.037		Crippen Method
mvol	356.800	ml/mol	McGowan Method
pc	1091.38	kPa	Joback Method
rinpol	3307.00		NIST Webbook
rinpol	3307.00		NIST Webbook
tb	1047.61	K	Joback Method
tc	1283.06	K	Joback Method
tf	634.90	K	Joback Method
vc	1.373	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1158.89	J/molxK	1047.61	Joback Method
cpg	1209.96	J/molxK	1243.81	Joback Method
cpg	1202.51	J/molxK	1204.57	Joback Method
cpg	1193.74	J/molxK	1165.33	Joback Method
cpg	1183.59	J/molxK	1126.09	Joback Method
cpg	1172.00	J/molxK	1086.85	Joback Method
cpg	1216.16	J/molxK	1283.06	Joback Method
dvisc	0.0000204	Paxs	1047.61	Joback Method

dvisc	0.0000260	Paxs	978.82	Joback Method
dvisc	0.0000344	Paxs	910.04	Joback Method
dvisc	0.0000477	Paxs	841.25	Joback Method
dvisc	0.0000701	Paxs	772.47	Joback Method
dvisc	0.0001110	Paxs	703.68	Joback Method
dvisc	0.0001941	Paxs	634.90	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U377860&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U377860&amp;Units=SI</a>
<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>

## 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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