

# Phthalic acid, 2-chloropropyl tridecyl ester

<b>Inchi:</b>	InChI=1S/C24H37ClO4/c1-3-4-5-6-7-8-9-10-11-12-15-18-28-23(26)21-16-13-14-17-22(2)
<b>InchiKey:</b>	WDOJKPRRAWNICY-UHFFFAOYSA-N
<b>Formula:</b>	C24H37ClO4
<b>SMILES:</b>	CCCCCCCCCCCCOC(=O)c1ccccc1C(=O)OCC(C)Cl
<b>Mol. weight [g/mol]:</b>	425.00

## Physical Properties

Property code	Value	Unit	Source
gf	-228.23	kJ/mol	Joback Method
hf	-824.25	kJ/mol	Joback Method
hfus	57.82	kJ/mol	Joback Method
hvap	94.26	kJ/mol	Joback Method
log10ws	-8.08		Crippen Method
logp	6.938		Crippen Method
mcvol	352.380	ml/mol	McGowan Method
pc	1012.30	kPa	Joback Method
rinpola	2967.00		NIST Webbook
rinpola	2967.00		NIST Webbook
tb	969.75	K	Joback Method
tc	1187.41	K	Joback Method
tf	558.42	K	Joback Method
vc	1.363	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1146.50	J/molxK	969.75	Joback Method
cpg	1162.32	J/molxK	1006.03	Joback Method
cpg	1176.72	J/molxK	1042.30	Joback Method
cpg	1189.75	J/molxK	1078.58	Joback Method
cpg	1201.44	J/molxK	1114.86	Joback Method
cpg	1211.85	J/molxK	1151.14	Joback Method
cpg	1221.01	J/molxK	1187.41	Joback Method
dvisc	0.0003376	Paxs	558.42	Joback Method

dvisc	0.0001702	Paxs	626.98	Joback Method
dvisc	0.0000982	Paxs	695.53	Joback Method
dvisc	0.0000625	Paxs	764.09	Joback Method
dvisc	0.0000429	Paxs	832.64	Joback Method
dvisc	0.0000312	Paxs	901.19	Joback Method
dvisc	0.0000237	Paxs	969.75	Joback Method

## Sources

<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=U356834&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U356834&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>

## 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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