

# Isophthalic acid, 4-chlorophenyl octyl ester

<b>Inchi:</b>	InChI=1S/C22H25ClO4/c1-2-3-4-5-6-7-15-26-21(24)17-9-8-10-18(16-17)22(25)27-20-13
<b>InchiKey:</b>	JNBIFKODUGXLPM-UHFFFAOYSA-N
<b>Formula:</b>	C22H25ClO4
<b>SMILES:</b>	CCCCCCCCOC(=O)c1cccc(C(=O)Oc2ccc(Cl)cc2)c1
<b>Mol. weight [g/mol]:</b>	388.88

## Physical Properties

Property code	Value	Unit	Source
gf	-139.85	kJ/mol	Joback Method
hf	-552.63	kJ/mol	Joback Method
hfus	49.81	kJ/mol	Joback Method
hvap	93.14	kJ/mol	Joback Method
log10ws	-7.42		Crippen Method
logp	6.077		Crippen Method
mcvol	300.440	ml/mol	McGowan Method
pc	1431.55	kPa	Joback Method
rinpol	3115.00		NIST Webbook
rinpol	3115.00		NIST Webbook
tb	956.09	K	Joback Method
tc	1183.10	K	Joback Method
tf	589.82	K	Joback Method
vc	1.149	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	919.72	J/molxK	956.09	Joback Method
cpg	932.57	J/molxK	993.93	Joback Method
cpg	944.09	J/molxK	1031.76	Joback Method
cpg	954.31	J/molxK	1069.60	Joback Method
cpg	963.29	J/molxK	1107.43	Joback Method
cpg	971.07	J/molxK	1145.27	Joback Method
cpg	977.69	J/molxK	1183.10	Joback Method
dvisc	0.0003074	Paxs	589.82	Joback Method

dvisc	0.0001832	Paxs	650.87	Joback Method
dvisc	0.0001193	Paxs	711.91	Joback Method
dvisc	0.0000832	Paxs	772.95	Joback Method
dvisc	0.0000611	Paxs	834.00	Joback Method
dvisc	0.0000468	Paxs	895.04	Joback Method
dvisc	0.0000371	Paxs	956.09	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U344583&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U344583&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

Latest version available from:

<https://www.chemeo.com/cid/86-162-7/Isophthalic-acid-4-chlorophenyl-octyl-ester.pdf>

Generated by Cheméo on 2024-05-01 01:44:17.781750167 +0000 UTC m=+16817106.702327479.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.