

# Isophthalic acid, (2-chlorocyclohexyl)methyl hexyl ester

Inchi:	InChI=1S/C21H29ClO4/c1-2-3-4-7-13-25-20(23)16-10-8-11-17(14-16)21(24)26-15-18-9-5
InchiKey:	DFGLBZXEUJFHGP-UHFFFAOYSA-N
Formula:	C21H29ClO4
SMILES:	CCCCCOC(=O)c1cccc(C(=O)OCC2CCCCC2Cl)c1
Mol. weight [g/mol]:	380.91

## Physical Properties

Property code	Value	Unit	Source
gf	-234.31	kJ/mol	Joback Method
hf	-723.07	kJ/mol	Joback Method
hfus	46.47	kJ/mol	Joback Method
hvap	88.09	kJ/mol	Joback Method
log10ws	-6.48		Crippen Method
logp	5.378		Crippen Method
mvol	299.250	ml/mol	McGowan Method
pc	1380.93	kPa	Joback Method
rinpol	2981.00		NIST Webbook
rinpol	2981.00		NIST Webbook
tb	916.43	K	Joback Method
tc	1138.56	K	Joback Method
tf	542.75	K	Joback Method
vc	1.133	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	963.16	J/molxK	916.43	Joback Method
cpg	978.80	J/molxK	953.45	Joback Method
cpg	992.85	J/molxK	990.47	Joback Method
cpg	1005.35	J/molxK	1027.49	Joback Method
cpg	1016.33	J/molxK	1064.52	Joback Method
cpg	1025.83	J/molxK	1101.54	Joback Method
cpg	1033.86	J/molxK	1138.56	Joback Method
dvisc	0.0005505	Paxs	542.75	Joback Method

dvisc	0.0003084	Paxs	605.03	Joback Method
dvisc	0.0001925	Paxs	667.31	Joback Method
dvisc	0.0001303	Paxs	729.59	Joback Method
dvisc	0.0000937	Paxs	791.87	Joback Method
dvisc	0.0000707	Paxs	854.15	Joback Method
dvisc	0.0000555	Paxs	916.43	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=U343797&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U343797&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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