

# Isophthalic acid, heptyl 2,4,5-trichlorophenyl ester

Inchi:	InChI=1S/C21H21Cl3O4/c1-2-3-4-5-6-10-27-20(25)14-8-7-9-15(11-14)21(26)28-19-13-17
InchiKey:	RQQCRUMVZZOTLQ-UHFFFAOYSA-N
Formula:	C21H21Cl3O4
SMILES:	CCCCCCCOC(=O)c1cccc(C(=O)Oc2cc(Cl)c(Cl)cc2Cl)c1
Mol. weight [g/mol]:	443.75

## Physical Properties

Property code	Value	Unit	Source
gf	-191.39	kJ/mol	Joback Method
hf	-586.41	kJ/mol	Joback Method
hfus	54.84	kJ/mol	Joback Method
hvap	101.01	kJ/mol	Joback Method
log10ws	-8.37		Crippen Method
logp	6.993		Crippen Method
mcvol	310.830	ml/mol	McGowan Method
pc	1422.92	kPa	Joback Method
rinpol	3200.00		NIST Webbook
rinpol	3200.00		NIST Webbook
tb	1018.03	K	Joback Method
tc	1255.93	K	Joback Method
tf	663.43	K	Joback Method
vc	1.190	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	898.28	J/molxK	1018.03	Joback Method
cpg	933.96	J/molxK	1216.28	Joback Method
cpg	929.40	J/molxK	1176.63	Joback Method
cpg	923.58	J/molxK	1136.98	Joback Method
cpg	916.48	J/molxK	1097.33	Joback Method
cpg	908.06	J/molxK	1057.68	Joback Method
cpg	937.30	J/molxK	1255.93	Joback Method
dvisc	0.0000325	Paxs	1018.03	Joback Method

dvisc	0.0000399	Paxs	958.93	Joback Method
dvisc	0.0000504	Paxs	899.83	Joback Method
dvisc	0.0000658	Paxs	840.73	Joback Method
dvisc	0.0000893	Paxs	781.63	Joback Method
dvisc	0.0001274	Paxs	722.53	Joback Method
dvisc	0.0001938	Paxs	663.43	Joback Method

## Sources

<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=U356614&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U356614&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>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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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