

# 4-(1,1-Dimethylhexyl)phenyl 2,4-dichlorobenzoate

<b>Inchi:</b>	InChI=1S/C21H24Cl2O2/c1-4-5-6-13-21(2,3)15-7-10-17(11-8-15)25-20(24)18-12-9-16(22)
<b>InchiKey:</b>	ZKGUILLUXMCPJA-UHFFFAOYSA-N
<b>Formula:</b>	C21H24Cl2O2
<b>SMILES:</b>	CCCCC(C)(C)c1ccc(OC(=O)c2ccc(Cl)cc2Cl)cc1
<b>Mol. weight [g/mol]:</b>	379.32

## Physical Properties

Property code	Value	Unit	Source
gf	66.93	kJ/mol	Joback Method
hf	-323.15	kJ/mol	Joback Method
hfus	40.83	kJ/mol	Joback Method
hvap	85.51	kJ/mol	Joback Method
log10ws	-7.92		Crippen Method
logp	7.071		Crippen Method
mcvol	291.150	ml/mol	McGowan Method
pc	1450.14	kPa	Joback Method
tb	896.10	K	Joback Method
tc	1129.53	K	Joback Method
tf	551.25	K	Joback Method
vc	1.107	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	846.12	J/molxK	896.10	Joback Method
cpg	860.55	J/molxK	935.01	Joback Method
cpg	873.81	J/molxK	973.91	Joback Method
cpg	885.99	J/molxK	1012.82	Joback Method
cpg	897.17	J/molxK	1051.72	Joback Method
cpg	907.43	J/molxK	1090.63	Joback Method
cpg	916.87	J/molxK	1129.53	Joback Method
dvisc	0.0003674	Paxs	551.25	Joback Method
dvisc	0.0002141	Paxs	608.73	Joback Method
dvisc	0.0001370	Paxs	666.20	Joback Method

dvisc	0.0000941	Paxs	723.67	Joback Method
dvisc	0.0000683	Paxs	781.15	Joback Method
dvisc	0.0000518	Paxs	838.62	Joback Method
dvisc	0.0000407	Paxs	896.10	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=B6004133&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=B6004133&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>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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