

# 1-Phenylethyl 4-chlorobenzoate

<b>Inchi:</b>	InChI=1S/C15H13ClO2/c1-11(12-5-3-2-4-6-12)18-15(17)13-7-9-14(16)10-8-13/h2-11H,1
<b>InchiKey:</b>	ODECTUPTPGBVNU-UHFFFAOYSA-N
<b>Formula:</b>	C15H13ClO2
<b>SMILES:</b>	CC(OC(=O)c1ccc(Cl)cc1)c1ccccc1
<b>Mol. weight [g/mol]:</b>	260.72

## Physical Properties

Property code	Value	Unit	Source
gf	42.32	kJ/mol	Joback Method
hf	-157.16	kJ/mol	Joback Method
hfus	25.76	kJ/mol	Joback Method
hvap	67.35	kJ/mol	Joback Method
log10ws	-4.89		Crippen Method
logp	4.258		Crippen Method
mcvol	194.370	ml/mol	McGowan Method
pc	2515.07	kPa	Joback Method
ripol	1881.00		NIST Webbook
ripol	1916.00		NIST Webbook
ripol	1905.00		NIST Webbook
ripol	1952.00		NIST Webbook
ripol	1938.00		NIST Webbook
ripol	1952.00		NIST Webbook
ripol	1925.00		NIST Webbook
ripol	1911.00		NIST Webbook
ripol	1895.00		NIST Webbook
ripol	1881.00		NIST Webbook
ripol	1905.00		NIST Webbook
ripol	2773.00		NIST Webbook
ripol	2699.00		NIST Webbook
ripol	2723.00		NIST Webbook
ripol	2749.00		NIST Webbook
ripol	2741.00		NIST Webbook
ripol	2699.00		NIST Webbook
ripol	2723.00		NIST Webbook
ripol	2741.00		NIST Webbook
tb	714.22	K	Joback Method
tc	960.09	K	Joback Method

tf	411.25	K	Joback Method
vc	0.727	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	491.72	J/mol×K	714.22	Joback Method
cpg	506.28	J/mol×K	755.20	Joback Method
cpg	519.60	J/mol×K	796.18	Joback Method
cpg	531.74	J/mol×K	837.16	Joback Method
cpg	542.75	J/mol×K	878.14	Joback Method
cpg	552.70	J/mol×K	919.12	Joback Method
cpg	561.64	J/mol×K	960.09	Joback Method
dvisc	0.0012667	Paxs	411.25	Joback Method
dvisc	0.0006843	Paxs	461.75	Joback Method
dvisc	0.0004174	Paxs	512.24	Joback Method
dvisc	0.0002782	Paxs	562.74	Joback Method
dvisc	0.0001982	Paxs	613.23	Joback Method
dvisc	0.0001487	Paxs	663.73	Joback Method
dvisc	0.0001162	Paxs	714.22	Joback Method

## Sources

<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>
<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=R34995&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R34995&amp;Units=SI</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>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>w<sub>s</sub>:</b>	Log10 of Water solubility in mol/l
<b>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>m<sub>cvol</sub>:</b>	McGowan's characteristic volume
<b>p<sub>c</sub>:</b>	Critical Pressure
<b>r<sub>inpol</sub>:</b>	Non-polar retention indices
<b>r<sub>ipol</sub>:</b>	Polar retention indices
<b>t<sub>b</sub>:</b>	Normal Boiling Point Temperature
<b>t<sub>c</sub>:</b>	Critical Temperature
<b>t<sub>f</sub>:</b>	Normal melting (fusion) point
<b>v<sub>c</sub>:</b>	Critical Volume

Latest version available from:

<https://www.cheméo.com/cid/85-057-5/1-Phenylethyl-4-chlorobenzoate.pdf>

Generated by Cheméo on 2024-04-27 04:41:56.631104877 +0000 UTC m=+16482165.551682203.

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