

# Phthalic acid, butyl 4-chloro-2-methoxybenzyl ester

Inchi:	InChI=1S/C20H21ClO5/c1-3-4-11-25-19(22)16-7-5-6-8-17(16)20(23)26-13-14-9-10-15(2)
InchiKey:	TYAMFYZWYVZNMV-UHFFFAOYSA-N
Formula:	C20H21ClO5
SMILES:	CCCCOC(=O)c1ccccc1C(=O)OCc1ccc(Cl)cc1OC
Mol. weight [g/mol]:	376.83

## Physical Properties

Property code	Value	Unit	Source
gf	-271.32	kJ/mol	Joback Method
hf	-655.04	kJ/mol	Joback Method
hfus	45.43	kJ/mol	Joback Method
hvap	91.76	kJ/mol	Joback Method
log10ws	-6.13		Crippen Method
logp	4.662		Crippen Method
mvol	278.130	ml/mol	McGowan Method
pc	1621.98	kPa	Joback Method
rinpol	2679.00		NIST Webbook
rinpol	2679.00		NIST Webbook
tb	937.73	K	Joback Method
tc	1166.24	K	Joback Method
tf	602.03	K	Joback Method
vc	1.054	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	828.29	J/molxK	937.73	Joback Method
cpg	840.05	J/molxK	975.82	Joback Method
cpg	850.40	J/molxK	1013.90	Joback Method
cpg	859.33	J/molxK	1051.99	Joback Method
cpg	866.87	J/molxK	1090.07	Joback Method
cpg	873.03	J/molxK	1128.16	Joback Method
cpg	877.80	J/molxK	1166.24	Joback Method
dvisc	0.0002436	Paxs	602.03	Joback Method

dvisc	0.0001564	Paxs	657.98	Joback Method
dvisc	0.0001076	Paxs	713.93	Joback Method
dvisc	0.0000782	Paxs	769.88	Joback Method
dvisc	0.0000594	Paxs	825.83	Joback Method
dvisc	0.0000466	Paxs	881.78	Joback Method
dvisc	0.0000377	Paxs	937.73	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=U382838&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382838&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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