

# 3-(3-Chloro-4-benzyloxy-phenyl)-2-methyl-propionic acid, methyl ester

Inchi: CCOC(=O)C(C)Cc1ccc(OCc2ccccc2)c(Cl)c1  
InchiKey: XZSMKHFZBVXMAF-UHFFFAOYSA-N

Formula: C18H19ClO3

SMILES: COC(=O)C(C)Cc1ccc(OCc2ccccc2)c(Cl)c1

Mol. weight [g/mol]: 318.80

## Physical Properties

Property code	Value	Unit	Source
gf	-47.05	kJ/mol	Joback Method
hf	-362.77	kJ/mol	Joback Method
hfus	34.33	kJ/mol	Joback Method
hvap	77.10	kJ/mol	Joback Method
log10ws	-5.07		Crippen Method
logp	4.271		Crippen Method
mvol	242.510	ml/mol	McGowan Method
pc	1867.55	kPa	Joback Method
rinpol	2328.00		NIST Webbook
rinpol	2328.00		NIST Webbook
tb	810.26	K	Joback Method
tc	1040.52	K	Joback Method
tf	479.81	K	Joback Method
vc	0.912	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	678.83	J/molxK	810.26	Joback Method
cpg	693.55	J/molxK	848.64	Joback Method
cpg	707.02	J/molxK	887.01	Joback Method
cpg	719.26	J/molxK	925.39	Joback Method
cpg	730.30	J/molxK	963.77	Joback Method
cpg	740.18	J/molxK	1002.15	Joback Method
cpg	748.94	J/molxK	1040.52	Joback Method
dvisc	0.0005947	Paxs	479.81	Joback Method

dvisc	0.0003354	Paxs	534.88	Joback Method
dvisc	0.0002105	Paxs	589.96	Joback Method
dvisc	0.0001430	Paxs	645.04	Joback Method
dvisc	0.0001033	Paxs	700.11	Joback Method
dvisc	0.0000782	Paxs	755.18	Joback Method
dvisc	0.0000615	Paxs	810.26	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=R157865&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R157865&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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