

# 3-(3-chloro, 4-isobutoxyphenyl)-2-methyl-propionic acid, methyl ester

Inchi: COC(=O)C(C)Cc1ccc(OCC(C)C)c(Cl)c1  
InchiKey: XXZOOMNHWNCCRK-UHFFFAOYSA-N

Formula: C15H21ClO3

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

Mol. weight [g/mol]: 284.78

## Physical Properties

Property code	Value	Unit	Source
gf	-187.16	kJ/mol	Joback Method
hf	-542.66	kJ/mol	Joback Method
hfus	29.00	kJ/mol	Joback Method
hvap	67.76	kJ/mol	Joback Method
log10ws	-3.97		Crippen Method
logp	3.726		Crippen Method
mcvol	224.000	ml/mol	McGowan Method
pc	1812.32	kPa	Joback Method
rinpol	1875.30		NIST Webbook
rinpol	1875.30		NIST Webbook
tb	714.50	K	Joback Method
tc	922.64	K	Joback Method
tf	404.58	K	Joback Method
vc	0.847	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	603.43	J/molxK	714.50	Joback Method
cpg	619.09	J/molxK	749.19	Joback Method
cpg	633.78	J/molxK	783.88	Joback Method
cpg	647.50	J/molxK	818.57	Joback Method
cpg	660.28	J/molxK	853.26	Joback Method
cpg	672.10	J/molxK	887.95	Joback Method
cpg	683.00	J/molxK	922.64	Joback Method
dvisc	0.0010634	Paxs	404.58	Joback Method

dvisc	0.0005446	Paxs	456.23	Joback Method
dvisc	0.0003196	Paxs	507.89	Joback Method
dvisc	0.0002070	Paxs	559.54	Joback Method
dvisc	0.0001442	Paxs	611.19	Joback Method
dvisc	0.0001063	Paxs	662.85	Joback Method
dvisc	0.0000819	Paxs	714.50	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=R157870&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R157870&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

Latest version available from:

<https://www.chemeo.com/cid/54-038-0/3-3-chloro-4-isobutoxyphenyl-2-methyl-propionic-acid-methyl-ester.pdf>

Generated by Cheméo on 2024-04-29 11:02:58.754580339 +0000 UTC m=+16677827.675157655.

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