

# 3,4,5-Trimethoxybenzyl chloride

<b>Other names:</b>	Benzene, 5-(chloromethyl)-1,2,3-trimethoxy- 5-(chloromethyl)-1,2,3-trimethoxybenzene
<b>Inchi:</b>	InChI=1S/C10H13ClO3/c1-12-8-4-7(6-11)5-9(13-2)10(8)14-3/h4-5H,6H2,1-3H3
<b>InchiKey:</b>	XXRUQNNAKXZSOS-UHFFFAOYSA-N
<b>Formula:</b>	C10H13ClO3
<b>SMILES:</b>	COc1cc(CCl)cc(OC)c1OC
<b>Mol. weight [g/mol]:</b>	216.66
<b>CAS:</b>	3840-30-0

## Physical Properties

Property code	Value	Unit	Source
gf	-210.09	kJ/mol	Joback Method
hf	-460.01	kJ/mol	Joback Method
hfus	22.29	kJ/mol	Joback Method
hvap	53.73	kJ/mol	Joback Method
log10ws	-2.86		Crippen Method
logp	2.451		Crippen Method
mvol	157.850	ml/mol	McGowan Method
pc	2550.76	kPa	Joback Method
tb	574.51	K	Joback Method
tc	782.12	K	Joback Method
tf	363.05	K	Joback Method
vc	0.591	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	356.49	J/mol×K	574.51	Joback Method
cpg	369.20	J/mol×K	609.11	Joback Method
cpg	381.40	J/mol×K	643.71	Joback Method
cpg	393.06	J/mol×K	678.32	Joback Method
cpg	404.15	J/mol×K	712.92	Joback Method
cpg	414.66	J/mol×K	747.52	Joback Method
cpg	424.56	J/mol×K	782.12	Joback Method

dvisc	0.0006690	Paxs	363.05	Joback Method
dvisc	0.0004454	Paxs	398.29	Joback Method
dvisc	0.0003168	Paxs	433.54	Joback Method
dvisc	0.0002372	Paxs	468.78	Joback Method
dvisc	0.0001849	Paxs	504.02	Joback Method
dvisc	0.0001489	Paxs	539.27	Joback Method
dvisc	0.0001232	Paxs	574.51	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=C3840300&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C3840300&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</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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