

# 2-((2-Chloroethoxy)carbonyl)benzoic acid

<b>Inchi:</b>	InChI=1S/C10H9ClO4/c11-5-6-15-10(14)8-4-2-1-3-7(8)9(12)13/h1-4H,5-6H2,(H,12,13)
<b>InchiKey:</b>	YTFGPKHKZPYPFL-UHFFFAOYSA-N
<b>Formula:</b>	C10H9ClO4
<b>SMILES:</b>	O=C(O)c1ccccc1C(=O)OCCCl
<b>Mol. weight [g/mol]:</b>	228.63
<b>CAS:</b>	6139-60-2

## Physical Properties

Property code	Value	Unit	Source
gf	-375.49	kJ/mol	Joback Method
hf	-550.02	kJ/mol	Joback Method
hfus	27.98	kJ/mol	Joback Method
hvap	77.76	kJ/mol	Joback Method
log10ws	-2.35		Crippen Method
logp	1.780		Crippen Method
mvol	155.120	ml/mol	McGowan Method
pc	3468.36	kPa	Joback Method
rinpol	1873.00		NIST Webbook
rinpol	1873.00		NIST Webbook
tb	719.63	K	Joback Method
tc	929.26	K	Joback Method
tf	454.23	K	Joback Method
vc	0.586	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	382.91	J/molxK	719.63	Joback Method
cpg	391.84	J/molxK	754.57	Joback Method
cpg	400.11	J/molxK	789.51	Joback Method
cpg	407.76	J/molxK	824.45	Joback Method
cpg	414.80	J/molxK	859.38	Joback Method
cpg	421.23	J/molxK	894.32	Joback Method
cpg	427.07	J/molxK	929.26	Joback Method

dvisc	0.0010322	Paxs	454.23	Joback Method
dvisc	0.0004971	Paxs	498.46	Joback Method
dvisc	0.0002697	Paxs	542.70	Joback Method
dvisc	0.0001605	Paxs	586.93	Joback Method
dvisc	0.0001027	Paxs	631.16	Joback Method
dvisc	0.0000697	Paxs	675.40	Joback Method
dvisc	0.0000496	Paxs	719.63	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=C6139602&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6139602&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>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>mvol:</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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