

# Benzene, (2-chloropropyl)-

<b>Other names:</b>	(2-Chloropropyl)benzene 1-Phenyl-2-chloropropane 2-Chloro-1-phenylpropane
<b>Inchi:</b>	InChI=1S/C9H11Cl/c1-8(10)7-9-5-3-2-4-6-9/h2-6,8H,7H2,1H3
<b>InchiKey:</b>	CKWAHIDVXZGPES-UHFFFAOYSA-N
<b>Formula:</b>	C9H11Cl
<b>SMILES:</b>	CC(Cl)Cc1ccccc1
<b>Mol. weight [g/mol]:</b>	154.64
<b>CAS:</b>	10304-81-1

## Physical Properties

Property code	Value	Unit	Source
gf	122.94	kJ/mol	Joback Method
hf	-13.58	kJ/mol	Joback Method
hfus	13.78	kJ/mol	Joback Method
hvap	41.90	kJ/mol	Joback Method
log10ws	-2.96		Crippen Method
logp	2.856		Crippen Method
mcvol	126.150	ml/mol	McGowan Method
pc	3156.17	kPa	Joback Method
rinpol	1127.00		NIST Webbook
rinpol	1138.00		NIST Webbook
rinpol	1127.00		NIST Webbook
tb	468.99	K	Joback Method
tc	687.77	K	Joback Method
tf	232.53	K	Joback Method
vc	0.474	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	242.63	J/molxK	468.99	Joback Method
cpg	303.30	J/molxK	651.31	Joback Method
cpg	292.74	J/molxK	614.85	Joback Method

cpg	281.43	J/molxK	578.38	Joback Method
cpg	269.33	J/molxK	541.92	Joback Method
cpg	256.41	J/molxK	505.45	Joback Method
cpg	313.15	J/molxK	687.77	Joback Method
dvisc	0.0002441	Paxs	468.99	Joback Method
dvisc	0.0003211	Paxs	429.58	Joback Method
dvisc	0.0004463	Paxs	390.17	Joback Method
dvisc	0.0006679	Paxs	350.76	Joback Method
dvisc	0.0011072	Paxs	311.35	Joback Method
dvisc	0.0021248	Paxs	271.94	Joback Method
dvisc	0.0050859	Paxs	232.53	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=C10304811&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C10304811&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>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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