

# Benzene, 1-chloro-2-propyl-

<b>Other names:</b>	o-Chloropropylbenzene
<b>Inchi:</b>	InChI=1S/C9H11Cl/c1-2-5-8-6-3-4-7-9(8)10/h3-4,6-7H,2,5H2,1H3
<b>InchiKey:</b>	WRZSIHUUDJFHNY-UHFFFAOYSA-N
<b>Formula:</b>	C9H11Cl
<b>SMILES:</b>	CCc1ccccc1Cl
<b>Mol. weight [g/mol]:</b>	154.64
<b>CAS:</b>	1730-86-5

## Physical Properties

Property code	Value	Unit	Source
gf	115.75	kJ/mol	Joback Method
hf	-19.77	kJ/mol	Joback Method
hfus	16.92	kJ/mol	Joback Method
hvap	42.95	kJ/mol	Joback Method
log10ws	-3.38		Crippen Method
logp	3.292		Crippen Method
mcvol	126.150	ml/mol	McGowan Method
pc	3076.16	kPa	Joback Method
rinpol	1188.00		NIST Webbook
ripol	1498.00		NIST Webbook
tb	474.41	K	Joback Method
tc	689.41	K	Joback Method
tf	260.05	K	Joback Method
vc	0.480	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	242.90	J/molxK	474.41	Joback Method
cpg	255.82	J/molxK	510.24	Joback Method
cpg	267.99	J/molxK	546.08	Joback Method
cpg	279.46	J/molxK	581.91	Joback Method
cpg	290.24	J/molxK	617.74	Joback Method
cpg	300.36	J/molxK	653.58	Joback Method

cpg	309.86	J/mol×K	689.41	Joback Method
dvisc	0.0023979	Paxs	260.05	Joback Method
dvisc	0.0013040	Paxs	295.78	Joback Method
dvisc	0.0008087	Paxs	331.50	Joback Method
dvisc	0.0005504	Paxs	367.23	Joback Method
dvisc	0.0004010	Paxs	402.96	Joback Method
dvisc	0.0003076	Paxs	438.68	Joback Method
dvisc	0.0002456	Paxs	474.41	Joback Method

## Sources

<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=C1730865&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1730865&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.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>

## 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>rinpolar:</b>	Non-polar retention indices
<b>ripolar:</b>	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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