

# P-chlorophenyl-n,n-dimethyl carbamate

<b>Inchi:</b>	InChI=1S/C9H10ClNO2/c1-11(2)9(12)13-8-5-3-7(10)4-6-8/h3-6H,1-2H3
<b>InchiKey:</b>	QTILATGINOFTLP-UHFFFAOYSA-N
<b>Formula:</b>	C9H10ClNO2
<b>SMILES:</b>	CN(C)C(=O)Oc1ccc(Cl)cc1
<b>Mol. weight [g/mol]:</b>	199.63
<b>CAS:</b>	7305-03-5

## Physical Properties

Property code	Value	Unit	Source
gf	-7.39	kJ/mol	Joback Method
hf	-197.04	kJ/mol	Joback Method
hfus	22.72	kJ/mol	Joback Method
hvap	54.15	kJ/mol	Joback Method
log10ws	-2.44		Crippen Method
logp	2.400		Crippen Method
mcvol	143.570	ml/mol	McGowan Method
pc	3231.98	kPa	Joback Method
tb	563.14	K	Joback Method
tc	781.84	K	Joback Method
tf	364.68	K	Joback Method
vc	0.522	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	314.83	J/molxK	563.14	Joback Method
cpg	327.09	J/molxK	599.59	Joback Method
cpg	338.58	J/molxK	636.04	Joback Method
cpg	349.32	J/molxK	672.49	Joback Method
cpg	359.33	J/molxK	708.94	Joback Method
cpg	368.63	J/molxK	745.39	Joback Method
cpg	377.26	J/molxK	781.84	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=C7305035&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C7305035&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>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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