

# Pentachlorophenyl dimethyl carbamate

<b>Inchi:</b>	InChI=1S/C9H6Cl5NO2/c1-15(2)9(16)17-8-6(13)4(11)3(10)5(12)7(8)14/h1-2H3
<b>InchiKey:</b>	YYZZEEYCOSFSTR-UHFFFAOYSA-N
<b>Formula:</b>	C9H6Cl5NO2
<b>SMILES:</b>	CN(C)C(=O)Oc1c(Cl)c(Cl)c(Cl)c(Cl)c1Cl
<b>Mol. weight [g/mol]:</b>	337.41
<b>CAS:</b>	90418-41-0

## Physical Properties

Property code	Value	Unit	Source
gf	-93.63	kJ/mol	Joback Method
hf	-305.88	kJ/mol	Joback Method
hfus	37.96	kJ/mol	Joback Method
hvap	74.34	kJ/mol	Joback Method
log10ws	-5.18		Crippen Method
logp	5.014		Crippen Method
mcvol	192.530	ml/mol	McGowan Method
pc	2584.59	kPa	Joback Method
tb	732.78	K	Joback Method
tc	967.85	K	Joback Method
tf	534.44	K	Joback Method
vc	0.719	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	394.93	J/molxK	732.78	Joback Method
cpg	402.93	J/molxK	771.96	Joback Method
cpg	410.28	J/molxK	811.14	Joback Method
cpg	416.99	J/molxK	850.31	Joback Method
cpg	423.07	J/molxK	889.49	Joback Method
cpg	428.51	J/molxK	928.67	Joback Method
cpg	433.33	J/molxK	967.85	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=C90418410&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C90418410&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>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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