

# Phenol, 3,4-dimethyl-, methylcarbamate

<b>Other names:</b>	Xylylcarb Carbamic acid, methyl-, 3,4-xylyl ester Meobal MPMC V 17004 3,4-Dimethylphenyl methylcarbamate 3,4-Dimethylphenyl N-methylcarbamate 3,4-Xylyl methylcarbamate 3,4-Xylyl N-methylcarbamate Carbamic acid, N-methyl-, (3,4-dimethylphenyl) ester Methylcarbamic acid 3,4-xylyl ester S-1042 Xylecarb 3,4-Xylylester kyseliny methylkarbaminove Carbamic acid, 3,4-dimethylphenyl ester, N-methyl Phenol, 3,4-dimethyl-, 1-(N-methylcarbamate)
<b>Inchi:</b>	InChI=1S/C10H13NO2/c1-7-4-5-9(6-8(7)2)13-10(12)11-3/h4-6H,1-3H3,(H,11,12)
<b>InchiKey:</b>	WCJYTPVNMWIZCG-UHFFFAOYSA-N
<b>Formula:</b>	C10H13NO2
<b>SMILES:</b>	<chem>CNC(=O)Oc1ccc(C)c(C)c1</chem>
<b>Mol. weight [g/mol]:</b>	179.22
<b>CAS:</b>	2425-10-7

## Physical Properties

Property code	Value	Unit	Source
gf	-18.06	kJ/mol	Joback Method
hf	-227.47	kJ/mol	Joback Method
hfus	22.81	kJ/mol	Joback Method
hvap	57.05	kJ/mol	Joback Method
log10ws	-2.90		Crippen Method
logp	2.022		Crippen Method
mcvol	145.420	ml/mol	McGowan Method
pc	3025.61	kPa	Joback Method
rinpol	1543.00		NIST Webbook
rinpol	1536.00		NIST Webbook
ripol	2132.00		NIST Webbook
ripol	2132.00		NIST Webbook

tb	591.30	K	Joback Method
tc	805.99	K	Joback Method
tf	351.37 ± 0.20	K	NIST Webbook
vc	0.546	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	346.95	J/mol×K	591.30	Joback Method
cpg	360.01	J/mol×K	627.08	Joback Method
cpg	372.35	J/mol×K	662.86	Joback Method
cpg	383.98	J/mol×K	698.65	Joback Method
cpg	394.92	J/mol×K	734.43	Joback Method
cpg	405.16	J/mol×K	770.21	Joback Method
cpg	414.72	J/mol×K	805.99	Joback Method
hfust	24.97	kJ/mol	350.80	NIST Webbook
hfust	24.97	kJ/mol	350.80	NIST Webbook

## 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=C2425107&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2425107&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>hfust:</b>	Enthalpy of fusion at a given temperature
<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>ripol:</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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