

# Methiocarb

**Other names:**

(3,5-dimethyl-4-methylsulfanylphenyl) N-methylcarbamate  
3,5-Dimethyl-4-(Methylthio)phenyl methylcarbamate  
3,5-Dimethyl-4-(methylthio)phenol methylcarbamate  
3,5-Dimethyl-4-methyl-thiophenyl-N-carbamate  
3,5-Dimethyl-4-methylthiophenyl N-methylcarbamate  
3,5-Xylenol, 4-(methylthio)-, methylcarbamate  
4-(Methylthio)-3,5-dimethylphenyl methylcarbamate  
4-(Methylthio)-3,5-xylyl methylcarbamate  
4-Methylmercapto-3,5-dimethylphenyl N-methylcarbamate  
4-Methylmercapto-3,5-xylyl methylcarbamate  
B 37344  
BAY 37344  
BAY 5024  
BAY 9026  
BAYER 37344  
Carbamic acid, 3,5-dimethyl-4-methylthiophenyl ester, N-methyl  
Carbamic acid, N-methyl-, 4-(methylthio)-3,5-xylyl ester  
Carbamic acid, methyl-, 3,5-dimethyl-4-(methylthio)phenyl ester  
Carbamic acid, methyl-, 4-(methylthio)-3,5-xylyl ester  
Club  
DCR 736  
Draza  
ENT 25,726  
H 321  
Mercaptodimethur  
Mesurol  
Mesurol phenol  
Methiocarbe  
Methyl carbamic acid 4-(methylthio)-3,5-xylyl ester  
Metmercapturan  
Metmercapturon  
OMS-93  
Phenol, 3,5-dimethyl-4-(methylthio)-, methylcarbamate  
Phenyl-3,5-dimethyl-4-(methylthio)-, methylcarbamate  
SD 9228

**Inchi:**

InChI=1S/C11H15NO2S/c1-7-5-9(14-11(13)12-3)6-8(2)10(7)15-4/h5-6H,1-4H3,(H,12,13)

**InchiKey:**

YFBPRJGDJKVWAH-UHFFFAOYSA-N

**Formula:**

C11H15NO2S

**SMILES:**

CNC(=O)Oc1cc(C)c(SC)c(C)c1

**Mol. weight [g/mol]:**

225.31

## Physical Properties

Property code	Value	Unit	Source
gf	13.85	kJ/mol	Joback Method
hf	-217.71	kJ/mol	Joback Method
hfus	29.14	kJ/mol	Joback Method
hvap	66.75	kJ/mol	Joback Method
log10ws	-3.92		Aqueous Solubility Prediction Method
logp	2.744		Crippen Method
mcvol	175.860	ml/mol	McGowan Method
pc	2735.42	kPa	Joback Method
rinpol	1915.00		NIST Webbook
rinpol	1956.00		NIST Webbook
tb	687.94	K	Joback Method
tc	915.89	K	Joback Method
tf	394.80 ± 0.20	K	NIST Webbook
tf	394.44 ± 0.20	K	NIST Webbook
vc	0.656	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	445.93	J/mol×K	687.94	Joback Method
cpg	459.40	J/mol×K	725.93	Joback Method
cpg	471.99	J/mol×K	763.92	Joback Method
cpg	483.69	J/mol×K	801.91	Joback Method
cpg	494.49	J/mol×K	839.91	Joback Method
cpg	504.41	J/mol×K	877.90	Joback Method
cpg	513.43	J/mol×K	915.89	Joback Method
hfust	30.36	kJ/mol	393.80	NIST Webbook
hfust	30.36	kJ/mol	393.80	NIST Webbook

# Sources

<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>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>Aqueous Solubility Prediction Method:</b>	<a href="http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa">http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa</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=C2032657&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2032657&amp;Units=SI</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>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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