

# Mexacarbate

<b>Other names:</b>	Phenol, 4-(dimethylamino)-3,5-dimethyl-, methylcarbamate (ester) Carbamic acid, methyl-, 4-(dimethylamino)-3,5-xylyl ester Dowco 139 ENT 25,766 Mexicarbate Zactran Zectane Zectran Zextran 4-(Dimethylamino)-3,5-Xylyl methylcarbamate 4-Dimethylamino-3,5-dimethylphenyl N-methylcarbamate 4-Dimethylamino-3,5-xylyl N-methylcarbamate Phenol, 4-(dimethylamino)-3,5-dimethyl-, methylcarbamate Carbamate, 4-dimethylamino-3,5-xylyl N-methyl- Carbamic acid, methyl-, 4-(dimethylamino)-3,5-dimethylphenyl ester 4-(Dimethylamine)-3,5-xylyl N-methylcarbamate 4-(Dimethylamino)-3,5-dimethylphenol methylcarbamate 4-(Dimethylamino)-3,5-xyleneol, methylcarbamate 4-(N,N-Dimethylamino)-3,5-xylyl N-methylcarbamate ENT 25766 Methylcarbamic acid, 4-(dimethylamino)-3,5-xylyl ester Methyl-4-dimethylamino-3,5-xylyl carbamate Methyl-4-dimethylamino-3,5-xylyl ester of carbamic acid NCI-C00544 OMS-47 OMS 639 3,5-Xyleneol, 4-(dimethylamino)-, methylcarbamate Carbamic acid, 3,5-dimethyl-4-dimethylaminophenyl ester, N-methyl
<b>Inchi:</b>	InChI=1S/C12H18N2O2/c1-8-6-10(16-12(15)13-3)7-9(2)11(8)14(4)5/h6-7H,1-5H3,(H,13,
<b>InchiKey:</b>	YNEVBPNZHBAYOA-UHFFFAOYSA-N
<b>Formula:</b>	C12H16N2O2
<b>SMILES:</b>	CNC(=O)Oc1cc(C)c(N(C)C)c(C)c1
<b>Mol. weight [g/mol]:</b>	220.27
<b>CAS:</b>	315-18-4

## Physical Properties

Property code	Value	Unit	Source
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gf	99.93		kJ/mol	Joback Method
hf	-212.69		kJ/mol	Joback Method
hfus	30.62		kJ/mol	Joback Method
hvap	64.20		kJ/mol	Joback Method
log10ws	-2.81			Crippen Method
logp	2.088			Crippen Method
mcvol	183.580		ml/mol	McGowan Method
pc	2433.84		kPa	Joback Method
tb	654.48		K	Joback Method
tc	860.54		K	Joback Method
tf	362.06 ± 0.20		K	NIST Webbook
vc	0.676		m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	481.89	J/mol×K	654.48	Joback Method
cpg	496.54	J/mol×K	688.82	Joback Method
cpg	510.35	J/mol×K	723.17	Joback Method
cpg	523.34	J/mol×K	757.51	Joback Method
cpg	535.53	J/mol×K	791.86	Joback Method
cpg	546.94	J/mol×K	826.20	Joback Method
cpg	557.58	J/mol×K	860.54	Joback Method
hfust	18.37	kJ/mol	361.70	NIST Webbook
hfust	18.37	kJ/mol	361.70	NIST Webbook
hfust	18.37	kJ/mol	361.70	NIST Webbook

## Sources

**Crippen Method:**

<http://pubs.acs.org/doi/abs/10.1021/ci9903071>

**Crippen Method:**

[https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)

**Joback Method:**

[https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)

**McGowan Method:**

<http://link.springer.com/article/10.1007/BF02311772>

**NIST Webbook:**

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C315184&Units=SI>

# 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>hvac:</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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