

Phenol, 3,5-dimethyl-4-(methylsulfonyl)-, methylcarbamate

Other names:	Phenol, 3,5-dimethyl-4-(methylsulfonyl)-, methylcarbamate Carbamic acid, methyl-, 4-(methylsulfonyl)-3,5-xylyl ester Ba 51-084786 Bay 37344 sulfone Bayer 37344 Sulfone BAY 41790 Carbamic acid, methyl-, 3,5-dimethyl-4-(methylsulfonyl)phenyl ester ENT 25825 3,5-Xylenol, 4-(methylsulfonyl)-, methylcarbamate Methiocarb sulfone
Inchi:	InChI=1S/C11H15NO4S/c1-7-5-9(16-11(13)12-3)6-8(2)10(7)17(4,14)15/h5-6H,1-4H3,(H,
InchiKey:	RJBJMKAMQIOAML-UHFFFAOYSA-N
Formula:	C11H15NO4S
SMILES:	CNC(=O)Oc1cc(C)c(S(C)(=O)=O)c(C)c1
Mol. weight [g/mol]:	257.31

Physical Properties

Property code	Value	Unit	Source
hfus	36.38	kJ/mol	Joback Method
log10ws	-3.26		Cheméo Relay (1.0)
logp	1.425		Crippen Method
mcvol	187.600	ml/mol	McGowan Method
tf	419.05	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	478.63	J/mol×K	666.94	Joback Method
cpg	492.03	J/mol×K	701.09	Joback Method
cpg	504.61	J/mol×K	735.25	Joback Method
cpg	516.35	J/mol×K	769.40	Joback Method
cpg	527.24	J/mol×K	803.56	Joback Method
cpg	537.27	J/mol×K	837.71	Joback Method
cpg	546.43	J/mol×K	871.86	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2179251&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

cpg:	Ideal gas heat capacity
hfus:	Enthalpy of fusion at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tf:	Normal melting (fusion) point

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