

1,3,7-Trimethylxanthine, TMS

Inchi:	InChI=1S/C8H12N4O2/c1-10-4-9-6-5(10)7(13)12(3)8(14)11(6)2/h4-6H,1-3H3
InchiKey:	PKROKIUCEJBAQW-UHFFFAOYSA-N
Formula:	C8H12N4O2
SMILES:	CN1C(=O)C2C(N=CN2C)N(C)C1=O
Mol. weight [g/mol]:	196.21

Physical Properties

Property code	Value	Unit	Source
log10ws	0.42		Crippen Method
logp	-0.821		Crippen Method
mcvol	140.620	ml/mol	McGowan Method
rinpole	1800.00		NIST Webbook
rinpole	1800.00		NIST Webbook

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R22061&Units=SI

Legend

log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
rinpole:	Non-polar retention indices

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<https://www.chemeo.com/cid/53-641-1/1-3-7-Trimethylxanthine-TMS.pdf>

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