

# inosine-5'-monophosphate, TMS

**Inchi:** InChI=1S/C25H53N4O8PSi5/c1-39(2,3)33-21-19(16-31-38(30,36-42(10,11)12)37-43(13,  
**InchiKey:** HHRWZMFMIFMUOO-UHFFFAOYSA-N  
**Formula:** C25H53N4O8PSi5  
**SMILES:** C[Si](C)(C)Oc1ncnc2c1ncn2C1OC(COP(=O)(O[Si](C)(C)C)O[Si](C)(C)C)C(O[Si](C)(C)C)C  
**Mol. weight [g/mol]:** 709.11

## Physical Properties

Property code	Value	Unit	Source
log10ws	1.20		Crippen Method
logp	7.205		Crippen Method
rinpol	3040.00		NIST Webbook

## Sources

**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci990307l>  
**Crippen Method:** [https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)  
**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=R207153&Units=SI>

## Legend

**log10ws:** Log10 of Water solubility in mol/l  
**logp:** Octanol/Water partition coefficient  
**rinpol:** Non-polar retention indices

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<https://www.chemeo.com/cid/72-254-0/inosine-5-monophosphate-TMS.pdf>

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