

# 2-Methoxy-4,6-bis(2-fluoro-2,2-dinitroethoxy)-1,3,5

**Inchi:** InChI=1S/C8H7F2N7O11/c1-26-4-11-5(27-2-7(9,14(18)19)15(20)21)13-6(12-4)28-3-8(10)  
**InchiKey:** MWDAMNNZTWJXEP-UHFFFAOYSA-N  
**Formula:** C8H7F2N7O11  
**SMILES:** COc1nc(OCC(F)([N+](=O)[O-])[N+](=O)[O-])nc(OCC(F)([N+](=O)[O-])[N+](=O)[O-])n1  
**Mol. weight [g/mol]:** 415.18  
**CAS:** 100508-57-4

## Physical Properties

Property code	Value	Unit	Source
chs	-3599.70 ± 2.30	kJ/mol	NIST Webbook
hfs	-907.70 ± 2.40	kJ/mol	NIST Webbook
log10ws	-4.21		Crippen Method
logp	-1.009		Crippen Method
mcvol	220.590	ml/mol	McGowan Method

## 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)  
**McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>  
**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C100508574&Units=SI>

## Legend

**chs:** Standard solid enthalpy of combustion  
**hfs:** Solid phase enthalpy of formation at standard conditions  
**log10ws:** Log10 of Water solubility in mol/l  
**logp:** Octanol/Water partition coefficient  
**mcvol:** McGowan's characteristic volume

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