

# D-(-)-Lyxose, tetrakis(trifluoroacetate), methyloxime (syn)

**Inchi:** InChI=1S/C14H9F12NO9/c1-32-27-2-4(34-8(29)12(18,19)20)6(36-10(31)14(24,25)26)5(3  
**InchiKey:** BOAISAABNRWOGO-UHFFFAOYSA-N  
**Formula:** C14H9F12NO9  
**SMILES:** CON=CC(OC(=O)C(F)(F)F)C(OC(=O)C(F)(F)F)C(COC(=O)C(F)(F)F)OC(=O)C(F)(F)F  
**Mol. weight [g/mol]:** 563.20

## Physical Properties

Property code	Value	Unit	Source
hf	-3765.65	kJ/mol	Joback Method
hvap	72.95	kJ/mol	Joback Method
log10ws	-3.36		Crippen Method
logp	2.146		Crippen Method
mcvol	270.670	ml/mol	McGowan Method
pc	1156.93	kPa	Joback Method
rinpol	1133.50		NIST Webbook
tb	900.98	K	Joback Method
tc	1104.62	K	Joback Method

## Sources

**McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>  
**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=U380235&Units=SI>  
**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)

## Legend

**hf:** Enthalpy of formation at standard conditions  
**hvap:** Enthalpy of vaporization at standard conditions  
**log10ws:** 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>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature

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