

# Urea, 1,3-bis (2-fluoroethyl)-

**Inchi:** InChI=1S/C5H10F2N2O/c6-1-3-8-5(10)9-4-2-7/h1-4H2,(H2,8,9,10)  
**InchiKey:** YUFVZZIMIQLNI-UHFFFAOYSA-N  
**Formula:** C5H10F2N2O  
**SMILES:** OC(=NCCF)NCCF  
**Mol. weight [g/mol]:** 152.14  
**CAS:** 13907-92-1

## Physical Properties

Property code	Value	Unit	Source
hf	-565.08	kJ/mol	Joback Method
hvap	51.60	kJ/mol	Joback Method
log10ws	-0.29		Crippen Method
logp	0.429		Crippen Method
mcvol	106.380	ml/mol	McGowan Method
pc	3145.56	kPa	Joback Method
tb	531.25	K	Joback Method
tc	701.49	K	Joback Method

## Sources

**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C13907921&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)  
**McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>

## 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>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature

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