

# Zidovudine

**Other names:**

3'-Azido-3'-deoxythymidine  
AZT  
Azidothymidine  
Thymidine, 3'-azido-3'-deoxy-  
BW-A 509U  
Retrovir  
3'-Azidothymidine  
3-Azido-3-deoxythymidine  
Aztec  
Compound S  
ZDV  
ZVD  
NSC 602670

**Inchi:** InChI=1S/C10H13N5O4/c1-5-3-15(10(18)12-9(5)17)8-2-6(13-14-11)7(4-16)19-8/h3,6-8,1**InchiKey:** HBOMLICNUCMMY-UHFFFAOYSA-N**Formula:** C10H13N5O4**SMILES:** Cc1cn(C2CC(N=[N+]=[N-])C(CO)O2)c(=O)[nH]c1=O**Mol. weight [g/mol]:** 267.24**CAS:** 30516-87-1

## Physical Properties

Property code	Value	Unit	Source
log10ws	-5.55		Crippen Method
logp	-0.678		Crippen Method
mcvol	181.920	ml/mol	McGowan Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	33.03	kJ/mol	359.80	NIST Webbook

# Sources

<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C30516871&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C30516871&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

# Legend

<b>hfust:</b>	Enthalpy of fusion at a given temperature
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume

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