

# Cyclothiazide

## Other names:

2H-1,2,4-Benzothiadiazine-7-sulfonamide,  
3-bicyclo[2.2.1]hept-5-en-2-yl-6-chloro-3,4-dihydro-, 1,1-dioxide  
2H-1,2,4-Benzothiadiazine-7-sulfonamide,  
3,4-dihydro-6-chloro-3-(5-norbornen-2-yl)-, 1,1-dioxide  
Anhydron  
Aquirel  
Doburil  
MDi 193  
Renazide  
Valmiran

6-Chloro-3,4-dihydro-3-(5-norbornen-2-yl)-2H-1,2,4-benzothiadiazine-7-sulfonamide  
1,1-dioxide  
Lilly 35483

## Inchi:

2H-1,2,4-Benzothiadiazine-7-sulfonamide,  
6-chloro-3,4-dihydro-3-(5-norbornen-2-yl)-, 1,1-dioxide  
InChI=1S/C14H16ClN3O4S2/c15-10-5-11-13(6-12(10)23(16,19)20)24(21,22)18-14(17-11)/

## InchiKey:

BOCUKUHLICSIY-UHFFFAOYSA-N

## Formula:

C14H16ClN3O4S2

## SMILES:

NS(=O)(=O)c1cc2c(cc1Cl)NC(C1CC3C=CC1C3)NS2(=O)=O

## Mol. weight [g/mol]:

389.88

## CAS:

2259-96-3

## Physical Properties

Property code	Value	Unit	Source
gf	-369.58	kJ/mol	Joback Method
hf	-696.29	kJ/mol	Joback Method
hfus	68.25	kJ/mol	Joback Method
hvap	115.89	kJ/mol	Joback Method
log10ws	-3.67		Crippen Method
logp	1.230		Crippen Method
mcvol	245.840	ml/mol	McGowan Method
pc	4590.15	kPa	Joback Method
tb	866.26	K	Joback Method
tc	1110.62	K	Joback Method
tf	804.23	K	Joback Method
vc	0.948	m3/kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	738.32	J/mol×K	866.26	Joback Method
cpg	751.70	J/mol×K	906.99	Joback Method
cpg	763.64	J/mol×K	947.71	Joback Method
cpg	774.21	J/mol×K	988.44	Joback Method
cpg	783.48	J/mol×K	1029.16	Joback Method
cpg	791.53	J/mol×K	1069.89	Joback Method
cpg	798.43	J/mol×K	1110.62	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<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=C2259963&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2259963&amp;Units=SI</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	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
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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