

# STDEV.S function - The function returns the standard deviation based on a sample in Excel

STDEV.S function: The function returns the standard deviation based on a sample, ignoring logical values and text. Standard deviation is a measure of the dispersion of values against the mean. Support functions from Excel 2010 onwards. Syntax: STDEV.S (number1, [number2], ...)

The following article introduces you to the **STDEV.S** function - one of the functions in the statistical function group is very popular in Excel.

## Hàm STDEV.S

**Description:** The function returns standard deviations based on a sample, ignoring logical values and text. Standard deviation is a measure of the dispersion of values against the mean. Support functions from Excel 2010 onwards.

**Syntax:** STDEV.S (number1, [number2], .)

Inside:

- **number1, [number2], .** : The values you want to calculate the standard deviation, where **number1** is the required parameter, the remaining parameters are optional and contain up to 254 **number** parameters .

**Attention:**

- The **STDEV.S** function assumes that its arguments are a global sample.

- Standard deviation calculated using the method '**n -1**'.

- Arguments can be numbers, names or arrays that contain numbers.

- When typing logical values and presenting numeric values into function arguments -> these values are still calculated.

- Function error occurs when arguments are text or error values cannot be converted.

- If you want to calculate both logical values and text -> use **STDEVPA** function .

- **STDEV.S** equation uses the formula:

$$\left[ \sqrt{\frac{\sum \left\{ \left( x - \overline{x} \right)^2 \right\}}{\left( n - 1 \right)}} \right]$$

Inside:

+ **x** is the sample mean **AVERAGE (number1, number2, .)**

+ **n** is the sample size.

**For example:**

Calculate the standard deviation based on a sample of the values ??in the following data table:

STT	Tham số	Giá trị
1	number1	10246
2	number2	21036
3	number3	23012
4	number4	96482
5	number5	12013

- In the cell to calculate enter the formula : = **STDEV.S (D6: D10)**

STT	Tham số	Giá trị
1	number1	10246
2	number2	21036
3	number3	23012
4	number4	96482
5	number5	12013

- Press **Enter** -> standard deviation based on a sample of the above values ??is:

The screenshot shows an Excel spreadsheet with the following data:

STT	Tham số	Giá trị
1	number1	10246
2	number2	21036
3	number3	23012
4	number4	96482
5	number5	12013

The formula bar shows `=STDEV.S(D6:D10)`. The result in cell D11 is 36160. A red arrow points from the formula bar to the result cell.

- Where the values ??of the elements in the set are text or logical values ??-> they are ignored:

The screenshot shows an Excel spreadsheet with the following data:

STT	Tham số	Giá trị
1	number1	10246
2	number2	abc
3	number3	23012
4	number4	TRUE
5	number5	12013

The formula bar shows `=STDEV.S(D6:D10)`. The result in cell D11 is 6917. Red circles highlight the text 'abc' and the logical value 'TRUE' in the data table. A red arrow points from the formula bar to the result cell.

Above are instructions and some specific examples when using the **STDEV.S** function in Excel.

Good luck!

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