

How can I use the LOG10 function in Excel to calculate the base 10 logarithm of a given number?

Authored by
stats writer

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The LOG10 function in Excel is a mathematical function that allows users to calculate the base 10 logarithm of a given number. This function is useful for various analytical and scientific purposes, such as calculating growth rates, determining relative changes, and solving exponential equations. To use the LOG10 function, simply enter the number you wish to calculate the logarithm of as the function's argument. The result will be the base 10 logarithm of the given number. This function is easy to use and can greatly simplify complex mathematical calculations in Excel.

This article describes the formula syntax and usage of the **LOG10** function in Microsoft Excel.

Description

Returns the base-10 logarithm of a number.

Syntax

LOG10(number)

The LOG10 function syntax has the following arguments:

Number Required. The positive real number for which you want the base-10 logarithm.

Example

Copy the example data in the following table, and paste it in cell A1 of a new Excel worksheet. For formulas to show results, select them, press F2, and then press Enter. If you need to, you can adjust the column widths to see all the data.

Formula	Description	Result
=LOG10(86)	Base 10 logarithm of 86. The result, 1.9345, is the power to raise the base, 10, to equal 86.	1.9345
=LOG10(10)	Base 10 logarithm of 10. This is the power 10 is raised to to equal 10.	1
=LOG10(100000)	Base 10 logarithm of 1E+5. This is the power 10 is raised to to equal 100000 (1E+5).	5
=LOG10(10^5)	Base 10 logarithm of 10^5. Same as above; 1E+5 = 100000.	5