

# How do I use the IMLOG10 function in Excel?

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## RECOMMENDED CITATION

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The IMLOG10 function in Excel is a mathematical function that calculates the logarithm base 10 of a complex number. It can be used to convert a complex number into its corresponding logarithmic form. To use this function, select the cell where you want the result to appear, then type "=IMLOG10(" followed by the complex number you want to calculate. Press enter to get the result. This function can be useful in various applications, such as engineering, finance, and statistics, where complex numbers and logarithms are frequently used. It can help simplify complex calculations and provide accurate results. Additionally, it can be combined with other functions to perform more complex operations. Overall, the IMLOG10 function is a valuable tool for users looking to perform logarithmic calculations on complex numbers in Excel.

This article describes the formula syntax and usage of the **IMLOG10** function in Microsoft Excel.

## Description

Returns the common logarithm (base 10) of a complex number in x + yi or x + yj text format.

## Syntax

IMLOG10(inumber)

The IMLOG10 function syntax has the following arguments:

**Inumber** Required. A complex number for which you want the common logarithm.

## Remarks

Use COMPLEX to convert real and imaginary coefficients into a complex number.

The common logarithm of a complex number can be calculated from the natural logarithm as follows:

$$\log_{10}(x + yi) = (\log_{10} e) \ln(x + yi)$$