

# How do I use the ACOSH function in Excel?

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The ACOSH function in Microsoft Excel is used to calculate the inverse hyperbolic cosine of a given number. This function is useful for mathematical calculations involving hyperbolic functions. To use the ACOSH function, simply enter the number for which you want to find the inverse hyperbolic cosine, preceded by the "=" sign, in a cell. Then, type "ACOSH(" followed by the cell reference or the number itself. Close the parentheses and press enter. The resulting value will be displayed in the cell. This function can also be used in formulas to perform more complex calculations. Overall, the ACOSH function is a powerful tool for performing mathematical operations involving hyperbolic functions in Excel.

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

## Description

Returns the inverse hyperbolic cosine of a number. The number must be greater than or equal to 1. The inverse hyperbolic cosine is the value whose hyperbolic cosine is number, so ACOSH(COSH(number)) equals number.

## Syntax

ACOSH(number)

The ACOSH function syntax has the following arguments:

**Number** Required. Any real number equal to or greater than 1.

## 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
=ACOSH(1)	Inverse hyperbolic cosine of 1	0
=ACOSH(10)	Inverse hyperbolic cosine of 10	2.9932228