

GAMMALN.PRECISE function - The function returns the natural logarithm of the gamma function, ? (x) in Excel

GAMMALN.PRECISE function: The function returns the natural logarithm of the gamma function, ? (x). The function is not different from the GAMMALN function, but the function only supports versions from Excel 2013 onwards. Syntax: GAMMALN.PRECISE (x)

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

Hàm Gammaln.precise

Description: The function returns the natural logarithm of the gamma function, ? (x). The function is not different from the **GAMMALN** function, but the function only supports versions from Excel 2013 onwards.

Syntax: GAMMALN.PRECISE (x)

Inside:

- **x:** The value you want to calculate the natural logarithm of the gamma function, ? (x). .

Attention:

- If the function's **x** value is not numeric -> the function returns the **#VALUE!** Error value

- If **x ? 0** the function returns the **#NUM!** Error value

- The exponent **e** of **GAMMALN.PRECISE (i)**, **i** is an integer, returns the same result as **(i - 1) !**.

- The function is calculated as follows:

[GAMMALN.PRECISE = LNleft (Gamma left (x right) right)]

Inside:

$$\left(\Gamma(x)\right) = \left(\prod_{c=1}^x c\right)$$

$$\left\{0, \dots, \left\{\text{if}\right\}, x, 0\right\}$$

{x ,,,, { rm {if}}, 0 le x le 1}
 {1 ,,,,,, {rm {if}}, x> 1}
 end {array}} right.,)

For example:

Calculate the natural logarithm value of the gamma function, $\Gamma(x)$ of the values x in the following data table:

STT	x	GAMMALN.PRECISE(x)
1	9	?
2	8.25	
3	25	
4	0	
5	-25	

- In the cell to calculate enter the formula : = GAMMALN.PRECISE (C6)

STT	x	GAMMALN.PRECISE(x)
1	9	=GAMMALN.PRECISE(C6)
2	8.25	
3	25	
4	0	
5	-25	

- Press **Enter** -> the natural logarithmic value of the gamma function, $\Gamma(x)$ is:

Hàm GAMMALN.PRECISE trong Excel

Nhóm hàm thống kê

STT	x	GAMMALN.PRECISE(x)
1	9	10.6046029
2	8.25	
3	25	
4	0	
5	-25	

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- Similarly copying the formula for the remaining values ??results:

Hàm GAMMALN.PRECISE trong Excel

Nhóm hàm thống kê

STT	x	GAMMALN.PRECISE(x)
1	9	10.6046029
2	8.25	9.03318692
3	25	54.7847294
4	0	
5	-25	

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- Where $x \leq 0$ -> the function returns the #NUM! Error value

D9 : X ✓ fx =GAMMALN.PRECISE(C9)

STT	x	GAMMALN.PRECISE(x)
1	9	10.6046029
2	8.25	9.03318692
3	25	54.7847294
4	0	#NUM!
5	-25	#NUM!

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- Where **x** is not a number -> the function returns the error value #VALUE!

D10 : X ✓ fx =GAMMALN.PRECISE(C10)

STT	x	GAMMALN.PRECISE(x)
1	9	10.6046029
2	8.25	9.03318692
3	25	54.7847294
4	0	#NUM!
5	ABC	#VALUE!

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Above are instructions and some specific examples when using the **GAMMALN.PRECISE** function in Excel.

Good luck!

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