#### LOGINV

[Syntax](Syntax.docx):

LOGINV ( probability , mean , standard-dev )

Description: Calculates the inverse of the lognormal cumulative distribution function of x, where ln(x) is normally distributed with [parameters](parameters.docx) mean and standard-dev.

Mathematical Formula:



Arguments:

|  |  |  |
| --- | --- | --- |
| Name | Type | Description |
| probability | number | A probability associated with the lognormal distribution. |
| mean | number | The mean of ln(x). |
| standard-dev | number | The standard deviation of ln(x). |

Return Type and Value: number – The inverse of the lognormal cumulative distribution function of x.

However, if

* probability < 0 or probability > 1, #NUM! is returned.
* standard-dev ≤ 0, #NUM! [is](is.docx) returned.

[Example:

LOGINV(0.039084,3.5,1.2) results in 4.000025219

end example]