# Package 'logOfGamma'

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**Title** Natural Logarithms of the Gamma Function for Large Values

**Description** Uses approximations to compute the natural logarithm of the Gamma function for large values.

**Version** 0.0.1

**Author** Phillip Labuschagne <philliplab@gmail.com>

**Maintainer** Phillip Labuschagne <philliplab@gmail.com>

**Suggests** testthat

**License** GPL-3

**RoxygenNote** 5.0.1

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## R topics documented:

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gammaln                 *Computes the natural logarithm of the gamma function.*

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#### Description

For values larger than 12, an approximation is used.

#### Usage

```
gammaln(x)
```

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## Arguments

x     A numeric vector of positive numbers.

## Examples

```
gammaln(5)
gammaln(50)
```

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gammaln_internal   *Computes the natural logarithm of the gamma function for values larger than 12.*

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## Description

Uses the approximation in Hart et al, Computer Approximations 1968.

## Usage

```
gammaln_internal(x)
```

## Arguments

x     A numeric value of length 1 greater than 12

## Examples

```
gammaln_internal(50)
```

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