```mathematica
ListPlot[Table[{n, Log[A000123[[n]]]/(
  (Log[n/Log[n]]^2 + Log[n] (2 + Log[2 Log[2]^2]) - 2 Log[2 Log[2]] Log[Log[n]])/
  (2 Log[2]))},
  {n, 2, Length[A000123], 10000}]]
```
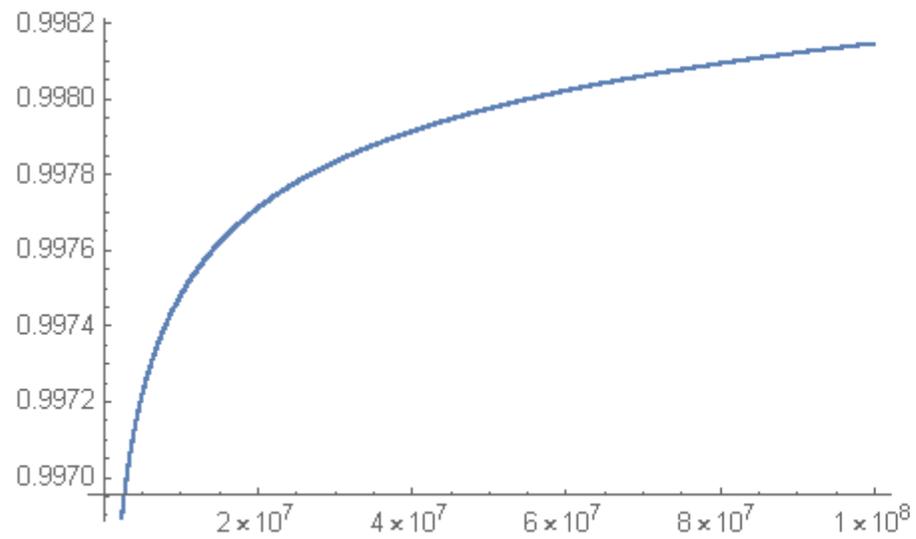
$$\text{ListPlot}\left[\text{Table}\left[\left\{n, \text{A000123}[[n]] \middle/ \text{Exp}\left[\frac{\text{Log}\left[\frac{n}{\text{Log}[n]}\right]^2 + \text{Log}[n]\left(2 + \text{Log}\left[2\,\text{Log}[2]^2\right]\right) - 2\,\text{Log}[2\,\text{Log}[2]]\,\text{Log}[\text{Log}[n]]}{2\,\text{Log}[2]}\right]\right\},\right.\right.$$

$$\left.\left.\{n, 2, \text{Length}[\text{A000123}], 10000\}\right]\right]$$
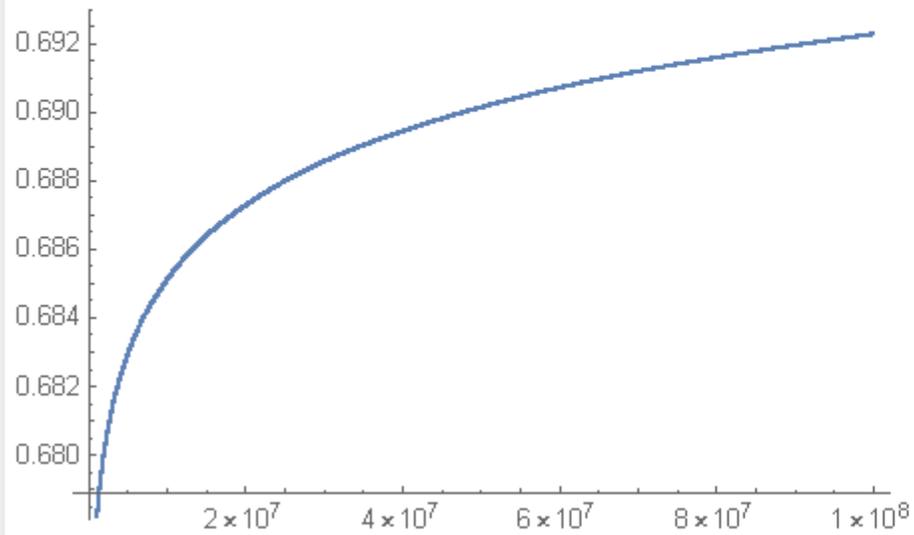
```
ListPlot[Table[{n, Log[n] * A000123[[2 n]] / (n * A000123[[n]])}, {n, 2, Length[A000123] / 2, 250000}]]
```