

## Sample calculation

Calculation of the equivalent purchasing power (PP) of one Deutsche Mark (DM) from 1990 in 2010 in euro (€):

$$\begin{aligned} \text{PP}_{2010} (\text{DM1})_{1990} &= \text{DM1} \times \frac{\text{Price index}_{2015=100} \text{ 2010}}{\text{Price index}_{2015=100} \text{ 1990}} \\ &\times \text{Conversion rate (€/DM)} \\ &= \text{DM1} \times \frac{93.2}{64.4} \times \frac{\text{€1}}{\text{DM1.95583}} \\ &\approx \text{€0.74} \end{aligned}$$

Note:

Purchasing power equivalents for amounts from other years can be calculated using the consumer price index time series on the basis of 2015 = 100.

[https://www.bundesbank.de/dynamic/action/en/statistics/time-series-databases/time-series-databases/759784/759784?listId=www\\_s311\\_lr\\_vpi](https://www.bundesbank.de/dynamic/action/en/statistics/time-series-databases/time-series-databases/759784/759784?listId=www_s311_lr_vpi)