

II. Euro foreign exchange reference rates of the European Central Bank *

1. End-of-month and daily rates

EUR 1 = CU ...

| | | EU member countries | | | | | | |
|--------|--------|----------------------|---------------------|---------------------|-------------------------|---------------------|---------------------|----------------------|
| | | Bulgaria | Czechia | Denmark | Hungary | Poland | Romania | Sweden |
| Period | | Bulgarian lev BGN | Czech koruna CZK | Danish krone DKK | Hungarian forint HUF | Polish zloty PLN | Romanian leu RON | Swedish krona SEK |
| 2023 | Nov. | 1.9558 | 24.292 | 7.4548 | 380.75 | 4.3490 | 4.9718 | 11.4308 |
| | Dec. | 1.9558 | 24.724 | 7.4529 | 382.80 | 4.3395 | 4.9756 | 11.0960 |
| 2024 | Jan. | 1.9558 | 24.891 | 7.4550 | 384.90 | 4.3330 | 4.9758 | 11.2682 |
| | Feb. | 1.9558 | 25.363 | 7.4540 | 393.48 | 4.3208 | 4.9706 | 11.2150 |
| | Mar. | 1.9558 | 25.305 | 7.4580 | 395.26 | 4.3123 | 4.9735 | 11.5250 |
| | Apr. | 1.9558 | 25.140 | 7.4583 | 390.68 | 4.3178 | 4.9759 | 11.7530 |
| | May | 1.9558 | 24.709 | 7.4588 | 388.83 | 4.2645 | 4.9767 | 11.4210 |
| | June | 1.9558 | 25.025 | 7.4575 | 395.10 | 4.3090 | 4.9773 | 11.3595 |
| | July | 1.9558 | 25.457 | 7.4621 | 395.78 | 4.2908 | 4.9749 | 11.6125 |
| | Aug. | 1.9558 | 25.031 | 7.4589 | 392.53 | 4.2763 | 4.9768 | 11.3355 |
| | Sep. | 1.9558 | 25.184 | 7.4560 | 396.88 | 4.2788 | 4.9753 | 11.3000 |
| | Oct. | 1.9558 | 25.327 | 7.4601 | 408.28 | 4.3508 | 4.9749 | 11.6308 |
| | Nov. | 1.9558 | 25.256 | 7.4579 | 411.75 | 4.2960 | 4.9774 | 11.5180 |
| 2024 | Dec. 4 | 1.9558 | 25.196 | 7.4577 | 414.39 | 4.2868 | 4.9770 | 11.5480 |
| | 5 | 1.9558 | 25.146 | 7.4579 | 411.80 | 4.2745 | 4.9774 | 11.5095 |
| | 6 | 1.9558 | 25.110 | 7.4584 | 414.35 | 4.2670 | 4.9774 | 11.5230 |
| | 9 | 1.9558 | 25.093 | 7.4578 | 411.25 | 4.2593 | 4.9720 | 11.5360 |
| | 10 | 1.9558 | 25.098 | 7.4578 | 411.15 | 4.2678 | 4.9713 | 11.5335 |
| | 11 | 1.9558 | 25.117 | 7.4574 | 409.48 | 4.2643 | 4.9674 | 11.5165 |
| | 12 | 1.9558 | 25.065 | 7.4583 | 408.45 | 4.2758 | 4.9704 | 11.5000 |
| | 13 | 1.9558 | 25.019 | 7.4570 | 408.90 | 4.2643 | 4.9732 | 11.5150 |
| | 16 | 1.9558 | 25.036 | 7.4588 | 409.03 | 4.2640 | 4.9763 | 11.4541 |
| | 17 | 1.9558 | 25.064 | 7.4590 | 409.45 | 4.2635 | 4.9753 | 11.4720 |
| | 18 | 1.9558 | 25.127 | 7.4606 | 410.88 | 4.2578 | 4.9752 | 11.4895 |
| | 19 | 1.9558 | 25.127 | 7.4613 | 416.05 | 4.2500 | 4.9760 | 11.4625 |
| | 20 | 1.9558 | 25.121 | 7.4614 | 414.18 | 4.2623 | 4.9762 | 11.4760 |
| | 23 | 1.9558 | 25.165 | 7.4590 | 414.70 | 4.2753 | 4.9763 | 11.4840 |
| | 24 | 1.9558 | 25.135 | 7.4608 | 411.73 | 4.2715 | 4.9745 | 11.5335 |
| | 27 | 1.9558 | 25.201 | 7.4602 | 411.45 | 4.2753 | 4.9769 | 11.4795 |
| | 30 | 1.9558 | 25.226 | 7.4600 | 411.53 | 4.2655 | 4.9765 | 11.4865 |

| | | Other European and non-European countries | | | | | | |
|--------|--------|---|-----------------------|------------------------|------------------------|-------------------------|------------------------|---------------------|
| | | Australia | Brazil | Canada | China | Hong Kong | Iceland | India |
| Period | | Australian dollar AUD | Brazilian real BRL | Canadian dollar CAD | Yuan (renminbi) CNY | Hong Kong dollar HKD | Icelandic krona ISK | Indian rupee INR |
| 2023 | Nov. | 1.6542 | 5.3984 | 1.4870 | 7.8008 | 8.5384 | 150.70 | 91.1143 |
| | Dec. | 1.6263 | 5.3618 | 1.4642 | 7.8509 | 8.6314 | 150.50 | 91.9045 |
| 2024 | Jan. | 1.6468 | 5.3749 | 1.4558 | 7.7789 | 8.4734 | 148.30 | 90.0010 |
| | Feb. | 1.6684 | 5.4054 | 1.4719 | 7.7888 | 8.4735 | 149.30 | 89.7458 |
| | Mar. | 1.6607 | 5.4032 | 1.4672 | 7.8144 | 8.4594 | 150.30 | 90.1365 |
| | Apr. | 1.6423 | 5.4928 | 1.4672 | 7.7609 | 8.3817 | 150.30 | 89.4155 |
| | May | 1.6315 | 5.6418 | 1.4804 | 7.8577 | 8.4838 | 149.10 | 90.5255 |
| | June | 1.6079 | 5.8915 | 1.4670 | 7.7748 | 8.3594 | 148.90 | 89.2495 |
| | July | 1.6635 | 6.0874 | 1.4977 | 7.8194 | 8.4589 | 149.90 | 90.6250 |
| | Aug. | 1.6301 | 6.2155 | 1.4941 | 7.8585 | 8.6455 | 152.90 | 92.9485 |
| | Sep. | 1.6166 | 6.0504 | 1.5133 | 7.8511 | 8.6933 | 150.70 | 93.8130 |
| | Oct. | 1.6559 | 6.2635 | 1.5134 | 7.7436 | 8.4598 | 148.90 | 91.4930 |
| | Nov. | 1.6245 | 6.4361 | 1.4796 | 7.6484 | 8.2211 | 145.70 | 89.3245 |
| 2024 | Dec. 4 | 1.6384 | 6.3472 | 1.4755 | 7.6285 | 8.1670 | 145.30 | 88.9315 |
| | 5 | 1.6377 | 6.3219 | 1.4809 | 7.6577 | 8.2027 | 145.50 | 89.2543 |
| | 6 | 1.6506 | 6.3546 | 1.4882 | 7.6852 | 8.2314 | 145.70 | 89.6130 |
| | 9 | 1.6380 | 6.3852 | 1.4919 | 7.6770 | 8.2164 | 145.90 | 89.6890 |
| | 10 | 1.6452 | 6.3811 | 1.4908 | 7.6354 | 8.1858 | 145.90 | 89.3525 |
| | 11 | 1.6525 | 6.3431 | 1.4905 | 7.6318 | 8.1677 | 145.90 | 89.1495 |
| | 12 | 1.6413 | 6.1975 | 1.4865 | 7.6272 | 8.1575 | 145.90 | 89.0440 |
| | 13 | 1.6488 | 6.3481 | 1.4954 | 7.6510 | 8.1777 | 145.90 | 89.1910 |
| | 16 | 1.6510 | 6.3397 | 1.4959 | 7.6463 | 8.1625 | 145.10 | 89.1230 |
| | 17 | 1.6547 | 6.4584 | 1.4995 | 7.6464 | 8.1571 | 144.70 | 89.1400 |
| | 18 | 1.6602 | 6.4544 | 1.5022 | 7.6463 | 8.1563 | 144.90 | 89.1610 |
| | 19 | 1.6631 | 6.5335 | 1.4930 | 7.5858 | 8.0785 | 144.70 | 88.4810 |
| | 20 | 1.6674 | 6.3173 | 1.4946 | 7.5831 | 8.0755 | 144.70 | 88.3550 |
| | 23 | 1.6667 | 6.3916 | 1.4978 | 7.5861 | 8.0757 | 145.10 | 88.4635 |
| | 24 | 1.6681 | 6.4384 | 1.4988 | 7.5843 | 8.0743 | 145.10 | 88.5275 |
| | 27 | 1.6777 | 6.4586 | 1.5002 | 7.6169 | 8.0990 | 145.10 | 89.2100 |
| | 30 | 1.6756 | 6.4760 | 1.5035 | 7.6234 | 8.1065 | 143.90 | 89.2685 |

* See Explanatory notes, p. 48.

II. Euro foreign exchange reference rates of the European Central Bank *

1. End-of-month and daily rates (cont'd)

EUR 1 = CU ...

| Other European and non-European countries (cont'd) | | | | | | | | |
|--|---------------------------------------|-----------------------------|------------------------------|---|--------------------------------------|-------------------------------|--|----------------------------------|
| Period | Indonesia Indonesian rupiah IDR | Israel New shekel ILS | Japan Japanese yen JPY | Korea, Republic of South Korean won KRW | Malaysia Malaysian ringgit MYR | Mexico Mexican peso MXN | New Zealand New Zealand dollar NZD | Norway Norwegian krone NOK |
| 2023 Nov. | 16,981.14 | 4.0597 | 161.19 | 1,418.78 | 5.0933 | 19.0235 | 1.7762 | 11.7200 |
| Dec. | 17,079.71 | 3.9993 | 156.33 | 1,433.66 | 5.0775 | 18.7231 | 1.7504 | 11.2405 |
| 2024 Jan. | 17,076.29 | 3.9431 | 160.19 | 1,444.63 | 5.1259 | 18.5817 | 1.7705 | 11.3510 |
| Feb. | 17,038.18 | 3.8736 | 162.53 | 1,447.43 | 5.1375 | 18.4969 | 1.7807 | 11.4920 |
| Mar. | 17,157.87 | 3.9799 | 163.45 | 1,458.67 | 5.1168 | 17.9179 | 1.8092 | 11.6990 |
| Apr. | 17,422.11 | 4.0172 | 168.27 | 1,479.67 | 5.1130 | 18.1895 | 1.8035 | 11.8150 |
| May | 17,641.72 | 4.0342 | 170.52 | 1,501.11 | 5.1080 | 18.4387 | 1.7696 | 11.3830 |
| June | 17,487.21 | 4.0200 | 171.94 | 1,474.86 | 5.0501 | 19.5654 | 1.7601 | 11.3965 |
| July | 17,634.43 | 4.0822 | 162.76 | 1,485.96 | 4.9749 | 20.3317 | 1.8289 | 11.8175 |
| Aug. | 17,180.03 | 4.0245 | 161.19 | 1,478.60 | 4.7901 | 21.7581 | 1.7709 | 11.6620 |
| Sep. | 16,975.88 | 4.1491 | 159.82 | 1,469.11 | 4.6167 | 21.9842 | 1.7616 | 11.7645 |
| Oct. | 17,105.85 | 4.0441 | 166.30 | 1,500.05 | 4.7652 | 21.8087 | 1.8220 | 11.9385 |
| Nov. | 16,753.81 | 3.8411 | 158.64 | 1,476.11 | 4.6948 | 21.5370 | 1.7873 | 11.6805 |
| 2024 Dec. 4 | 16,707.46 | 3.7891 | 158.59 | 1,487.28 | 4.6716 | 21.3067 | 1.7987 | 11.6205 |
| 5 | 16,711.17 | 3.7981 | 158.52 | 1,494.61 | 4.6666 | 21.3860 | 1.7985 | 11.6600 |
| 6 | 16,743.43 | 3.8074 | 159.25 | 1,502.23 | 4.6763 | 21.3595 | 1.8113 | 11.7445 |
| 9 | 16,779.92 | 3.7649 | 159.40 | 1,513.49 | 4.6763 | 21.3040 | 1.8030 | 11.7435 |
| 10 | 16,709.98 | 3.7661 | 159.74 | 1,507.31 | 4.6614 | 21.2298 | 1.8083 | 11.7315 |
| 11 | 16,740.07 | 3.7665 | 160.35 | 1,502.88 | 4.6578 | 21.2325 | 1.8180 | 11.7120 |
| 12 | 16,747.78 | 3.7450 | 159.60 | 1,500.97 | 4.6549 | 21.1588 | 1.8114 | 11.6540 |
| 13 | 16,850.20 | 3.7775 | 161.45 | 1,507.58 | 4.6805 | 21.2438 | 1.8218 | 11.6758 |
| 16 | 16,820.21 | 3.7767 | 161.73 | 1,509.15 | 4.6742 | 21.1635 | 1.8189 | 11.7160 |
| 17 | 16,940.06 | 3.7790 | 161.63 | 1,508.13 | 4.6885 | 21.1368 | 1.8229 | 11.7635 |
| 18 | 16,909.32 | 3.7660 | 161.52 | 1,509.48 | 4.6917 | 21.1393 | 1.8303 | 11.7620 |
| 19 | 16,957.88 | 3.7647 | 163.07 | 1,505.30 | 4.6835 | 21.1339 | 1.8387 | 11.8143 |
| 20 | 16,863.07 | 3.8060 | 162.89 | 1,502.70 | 4.6838 | 21.0194 | 1.8445 | 11.8685 |
| 23 | 16,817.59 | 3.7938 | 163.36 | 1,510.56 | 4.6665 | 21.0069 | 1.8429 | 11.8070 |
| 24 | 16,843.33 | 3.8133 | 163.25 | 1,515.98 | 4.6642 | 20.9490 | 1.8429 | 11.8490 |
| 27 | 16,922.75 | 3.8364 | 164.65 | 1,537.65 | 4.6660 | 21.1453 | 1.8508 | 11.8435 |
| 30 | 16,881.00 | 3.8120 | 164.57 | 1,539.13 | 4.6632 | 21.2847 | 1.8470 | 11.8455 |

| Other European and non-European countries (cont'd) | | | | | | | | |
|--|---------------------------------------|--------------------------------------|---|-----------------------------------|------------------------------|-------------------------------|---|-----------------------------------|
| Period | Philippines Philippine peso PHP | Singapore Singapore dollar SGD | South Africa South African rand ZAR | Switzerland Swiss franc CHF | Thailand Thai baht THB | Turkey Turkish lira TRY | United Kingdom Pound sterling GBP | United States US dollar USD |
| 2023 Nov. | 60.623 | 1.4602 | 20.5703 | 0.9562 | 38.494 | 31.5441 | 0.86368 | 1.0931 |
| Dec. | 61.283 | 1.4591 | 20.3477 | 0.9260 | 37.973 | 32.6531 | 0.86905 | 1.1050 |
| 2024 Jan. | 61.023 | 1.4517 | 20.3238 | 0.9348 | 38.461 | 32.8984 | 0.85435 | 1.0837 |
| Feb. | 60.858 | 1.4570 | 20.9007 | 0.9534 | 38.909 | 33.8067 | 0.85655 | 1.0826 |
| Mar. | 60.797 | 1.4587 | 20.5226 | 0.9766 | 39.412 | 34.9487 | 0.85510 | 1.0811 |
| Apr. | 61.830 | 1.4593 | 20.0682 | 0.9787 | 39.732 | 34.7045 | 0.85478 | 1.0718 |
| May | 63.604 | 1.4663 | 20.2927 | 0.9818 | 39.925 | 34.9691 | 0.85365 | 1.0852 |
| June | 62.560 | 1.4513 | 19.4970 | 0.9634 | 39.319 | 35.1868 | 0.84638 | 1.0705 |
| July | 63.218 | 1.4491 | 19.7400 | 0.9533 | 38.629 | 35.9085 | 0.84380 | 1.0828 |
| Aug. | 62.309 | 1.4441 | 19.5358 | 0.9416 | 37.541 | 37.7651 | 0.84120 | 1.1087 |
| Sep. | 62.740 | 1.4342 | 19.2258 | 0.9439 | 36.107 | 38.2693 | 0.83543 | 1.1196 |
| Oct. | 63.364 | 1.4377 | 19.1869 | 0.9412 | 36.754 | 37.2680 | 0.83753 | 1.0882 |
| Nov. | 61.939 | 1.4159 | 19.0777 | 0.9309 | 36.217 | 36.6390 | 0.83205 | 1.0562 |
| 2024 Dec. 4 | 61.113 | 1.4135 | 19.0679 | 0.9305 | 36.040 | 36.4667 | 0.82830 | 1.0492 |
| 5 | 60.946 | 1.4133 | 19.0427 | 0.9305 | 35.973 | 36.5975 | 0.82800 | 1.0540 |
| 6 | 61.215 | 1.4174 | 19.1076 | 0.9284 | 35.970 | 36.8199 | 0.82855 | 1.0581 |
| 9 | 61.297 | 1.4157 | 18.8315 | 0.9295 | 35.656 | 36.7915 | 0.82805 | 1.0568 |
| 10 | 61.050 | 1.4118 | 18.8204 | 0.9267 | 35.550 | 36.6838 | 0.82555 | 1.0527 |
| 11 | 61.266 | 1.4114 | 18.6794 | 0.9280 | 35.603 | 36.6380 | 0.82458 | 1.0507 |
| 12 | 61.185 | 1.4108 | 18.5627 | 0.9319 | 35.512 | 36.5895 | 0.82428 | 1.0491 |
| 13 | 61.641 | 1.4170 | 18.8131 | 0.9385 | 35.903 | 36.7584 | 0.83043 | 1.0518 |
| 16 | 61.706 | 1.4173 | 18.7692 | 0.9372 | 35.782 | 36.7034 | 0.82945 | 1.0498 |
| 17 | 61.971 | 1.4181 | 19.0296 | 0.9413 | 35.926 | 36.7302 | 0.82648 | 1.0497 |
| 18 | 61.855 | 1.4177 | 18.9602 | 0.9382 | 35.933 | 36.7556 | 0.82520 | 1.0496 |
| 19 | 61.396 | 1.4131 | 19.0350 | 0.9319 | 35.946 | 36.4565 | 0.82445 | 1.0395 |
| 20 | 61.100 | 1.4100 | 19.1104 | 0.9297 | 35.757 | 36.5544 | 0.82965 | 1.0390 |
| 23 | 60.899 | 1.4103 | 19.2042 | 0.9336 | 35.632 | 36.6032 | 0.82995 | 1.0393 |
| 24 | 60.787 | 1.4129 | 19.3293 | 0.9358 | 35.489 | 36.6474 | 0.82805 | 1.0395 |
| 27 | 60.683 | 1.4174 | 19.5259 | 0.9396 | 35.495 | 36.7456 | 0.83098 | 1.0435 |
| 30 | 60.411 | 1.4166 | 19.5691 | 0.9435 | 35.640 | 36.8914 | 0.82950 | 1.0444 |

* See Explanatory notes, p. 48.