

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

1. End-of-month and daily rates

EUR 1 = CU ...

EU member countries								
Period	Bulgaria Bulgarian lev BGN	Czechia Czech koruna CZK	Denmark Danish krone DKK	Hungary Hungarian forint HUF	Poland Polish zloty PLN	Romania Romanian leu RON	Sweden Swedish krona SEK	
2023 Apr.	1.9558	23.502	7.4538	373.78	4.5815	4.9301	11.3515	
May	1.9558	23.741	7.4480	370.85	4.5368	4.9695	11.6278	
June	1.9558	23.742	7.4474	371.93	4.4388	4.9635	11.8055	
July	1.9558	23.900	7.4529	386.93	4.4070	4.9349	11.5895	
Aug.	1.9558	24.072	7.4523	380.13	4.4673	4.9420	11.8430	
Sep.	1.9558	24.339	7.4571	389.50	4.6283	4.9735	11.5325	
Oct.	1.9558	24.558	7.4647	382.13	4.4405	4.9659	11.8275	
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	
2024 May 3	1.9558	25.025	7.4583	388.95	4.3290	4.9761	11.6398	
6	1.9558	24.995	7.4589	389.38	4.3185	4.9688	11.6250	
7	1.9558	25.014	7.4596	389.05	4.3138	4.9757	11.6810	
8	1.9558	25.036	7.4599	388.88	4.3075	4.9757	11.7330	
9	1.9558	24.935	7.4594	387.95	4.2920	4.9753	11.7205	
10	1.9558	24.936	7.4607	387.72	4.2968	4.9758	11.6865	
13	1.9558	24.779	7.4608	387.00	4.2860	4.9762	11.7000	
14	1.9558	24.750	7.4608	386.10	4.2695	4.9758	11.7285	
15	1.9558	24.766	7.4617	386.00	4.2690	4.9758	11.6751	
16	1.9558	24.709	7.4612	386.18	4.2648	4.9755	11.6172	
17	1.9558	24.722	7.4615	387.60	4.2650	4.9752	11.6550	
20	1.9558	24.748	7.4611	385.65	4.2533	4.9750	11.6127	
21	1.9558	24.682	7.4617	385.43	4.2553	4.9743	11.5810	
22	1.9558	24.748	7.4617	388.05	4.2686	4.9751	11.6325	
23	1.9558	24.738	7.4624	387.08	4.2630	4.9754	11.5925	
24	1.9558	24.736	7.4612	385.18	4.2553	4.9743	11.5990	
27	1.9558	24.733	7.4619	384.70	4.2553	4.9763	11.5400	
28	1.9558	24.655	7.4616	382.78	4.2483	4.9759	11.4660	
29	1.9558	24.731	7.4607	387.08	4.2640	4.9768	11.5215	

Other European and non-European countries								
Period	Australia Australian dollar AUD	Brazil Brazilian real BRL	Canada Canadian dollar CAD	China Yuan (renminbi) CNY	Hong Kong Hong Kong dollar HKD	Iceland Icelandic krona ISK	India Indian rupee INR	
2023 Apr.	1.6664	5.4872	1.4981	7.5979	8.6199	149.10	89.8555	
May	1.6497	5.4288	1.4582	7.5926	8.3696	149.70	88.3400	
June	1.6398	5.2788	1.4415	7.8983	8.5157	148.70	89.2065	
July	1.6436	5.2031	1.4566	7.8808	8.5966	144.30	90.6690	
Aug.	1.6785	5.3082	1.4721	7.9196	8.5250	142.30	89.9293	
Sep.	1.6339	5.3065	1.4227	7.7352	8.2959	144.90	88.0165	
Oct.	1.6739	5.3743	1.4712	7.7686	8.3079	147.50	88.4195	
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	
2024 May 3	1.6330	5.4916	1.4682	7.7798	8.3961	150.30	89.6710	
6	1.6248	5.4683	1.4731	7.7662	8.4223	150.30	89.9875	
7	1.6297	5.4629	1.4730	7.7707	8.4197	150.30	89.8980	
8	1.6374	5.4682	1.4784	7.7651	8.3989	150.10	89.7015	
9	1.6299	5.5189	1.4728	7.7554	8.3881	150.30	89.6070	
10	1.6320	5.5332	1.4747	7.7877	8.4228	150.30	90.0185	
13	1.6305	5.5486	1.4757	7.8095	8.4329	150.30	90.1330	
14	1.6329	5.5419	1.4753	7.8103	8.4341	150.50	90.1600	
15	1.6308	5.5827	1.4763	7.8212	8.4578	150.30	90.4445	
16	1.6290	5.5696	1.4810	7.8430	8.4798	150.30	90.7300	
17	1.6281	5.5645	1.4784	7.8370	8.4600	150.30	90.3883	
20	1.6259	5.5590	1.4798	7.8560	8.4712	150.30	90.4715	
21	1.6278	5.5371	1.4797	7.8610	8.4778	150.10	90.5115	
22	1.6288	5.5647	1.4810	7.8414	8.4538	150.10	90.2135	
23	1.6333	5.5745	1.4832	7.8578	8.4749	150.10	90.3445	
24	1.6394	5.5722	1.4865	7.8522	8.4680	149.90	90.1040	
27	1.6320	5.6038	1.4813	7.8545	8.4663	149.70	90.1393	
28	1.6314	5.6141	1.4820	7.8842	8.4994	149.30	90.5150	
29	1.6370	5.6149	1.4838	7.8706	8.4811	149.10	90.5290	

* 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 Apr.	16,111.90	3.9939	149.35	1,470.89	4.8981	19.8182	1.7864	11.7910
May	16,030.39	3.9713	149.13	1,416.29	4.9307	18.9263	1.7793	12.0045
June	16,384.54	4.0486	157.16	1,435.88	5.0717	18.5614	1.7858	11.7040
July	16,622.65	4.0714	156.73	1,405.49	4.9703	18.4088	1.7773	11.1805
Aug.	16,551.96	4.1293	158.49	1,439.56	5.0428	18.1866	1.8259	11.5800
Sep.	16,383.62	4.0472	158.10	1,425.26	4.9741	18.5030	1.7575	11.2535
Oct.	16,868.28	4.2756	160.30	1,434.66	5.0594	19.1551	1.8224	11.8735
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
2024 May 3	17,247.67	3.9943	164.62	1,460.24	5.0927	18.2086	1.7952	11.7080
6	17,289.39	4.0322	165.70	1,460.00	5.1067	18.2346	1.7891	11.6663
7	17,295.26	4.0056	166.45	1,462.45	5.1009	18.1606	1.7918	11.6980
8	17,270.98	3.9883	167.15	1,466.47	5.0949	18.1936	1.7948	11.7570
9	17,248.52	4.0140	167.32	1,471.57	5.0878	18.1764	1.7881	11.7215
10	17,292.10	4.0091	167.87	1,472.72	5.1082	18.0730	1.7923	11.6735
13	17,371.37	4.0161	168.25	1,476.01	5.1082	18.0713	1.7923	11.6800
14	17,407.15	4.0089	168.89	1,476.56	5.0952	18.1363	1.7934	11.6815
15	17,340.14	4.0030	168.43	1,471.93	5.0986	18.2710	1.7860	11.6490
16	17,297.31	4.0057	168.33	1,463.04	5.0885	18.1784	1.7794	11.6420
17	17,316.08	4.0318	168.96	1,471.55	5.0831	18.0889	1.7751	11.6330
20	17,351.81	4.0267	169.25	1,477.31	5.0884	18.0315	1.7773	11.6115
21	17,383.98	3.9892	169.86	1,480.56	5.0979	17.9800	1.7810	11.5830
22	17,371.32	3.9853	169.54	1,480.95	5.0820	18.0397	1.7724	11.5850
23	17,398.69	3.9863	169.90	1,476.66	5.1063	18.0534	1.7703	11.5165
24	17,377.88	3.9801	170.28	1,480.44	5.1073	18.0844	1.7747	11.4953
27	17,421.56	3.9851	170.07	1,478.03	5.0930	18.0901	1.7665	11.4150
28	17,495.81	3.9948	170.54	1,477.78	5.1077	18.1116	1.7648	11.4070
29	17,580.25	4.0153	170.74	1,484.62	5.1066	18.2588	1.7716	11.4170

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 Apr.	60.923	1.4679	20.1558	0.9839	37.467	21.3608	0.88050	1.0981
May	60.053	1.4467	21.1353	0.9724	37.134	22.1320	0.86405	1.0683
June	60.082	1.4732	20.5785	0.9788	38.482	28.3193	0.85828	1.0866
July	60.522	1.4660	19.5511	0.9619	37.732	29.7126	0.85765	1.1023
Aug.	61.545	1.4686	20.4199	0.9584	38.005	28.9848	0.85718	1.0868
Sep.	59.969	1.4443	19.9813	0.9669	38.679	29.0514	0.86458	1.0594
Oct.	60.295	1.4525	19.9507	0.9607	38.266	30.0455	0.87366	1.0619
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
2024 May 3	61.392	1.4527	19.8952	0.9744	39.516	34.7482	0.85573	1.0744
6	61.660	1.4548	19.8369	0.9754	39.618	34.7747	0.85660	1.0776
7	61.678	1.4570	19.9127	0.9770	39.683	34.7408	0.85805	1.0766
8	61.643	1.4572	20.0409	0.9770	39.717	34.6564	0.86083	1.0743
9	61.569	1.4558	19.8856	0.9760	39.617	34.5811	0.85995	1.0732
10	61.936	1.4592	19.8673	0.9779	39.580	34.7431	0.86055	1.0779
13	62.417	1.4605	19.8185	0.9784	39.688	34.7702	0.86023	1.0795
14	62.452	1.4609	19.8835	0.9801	39.589	34.8169	0.85983	1.0796
15	62.284	1.4609	19.9073	0.9800	39.580	34.9765	0.85840	1.0832
16	62.490	1.4617	19.7911	0.9822	39.291	34.9901	0.85850	1.0866
17	62.559	1.4609	19.8068	0.9855	39.358	34.9852	0.85685	1.0844
20	62.853	1.4628	19.8052	0.9880	39.214	34.9725	0.85548	1.0861
21	63.294	1.4632	19.6955	0.9884	39.425	34.9752	0.85440	1.0864
22	62.825	1.4616	19.7464	0.9905	39.448	34.8553	0.85165	1.0830
23	63.138	1.4637	19.9118	0.9907	39.612	34.9722	0.85175	1.0854
24	63.078	1.4639	19.9506	0.9924	39.756	34.9539	0.85241	1.0840
27	63.090	1.4633	19.9632	0.9922	39.702	34.9000	0.85070	1.0843
28	63.083	1.4659	19.9443	0.9908	39.823	35.0223	0.85080	1.0882
29	63.481	1.4652	19.9000	0.9907	39.948	34.9889	0.85130	1.0857

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