

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

2. Annual and monthly averages +

EUR 1 = CU ...

EU member countries								
Period	Bulgaria	Czechia	Denmark	Hungary	Poland	Romania	Sweden	
	Bulgarian lev BGN	Czech koruna CZK	Danish krone DKK	Hungarian forint HUF	Polish zloty PLN	Romanian leu RON	Swedish krona SEK	
2023	1.9558	24.004	7.4509	381.85	4.5420	4.9467	11.4788	
2024	1.9558	25.120	7.4589	395.30	4.3058	4.9746	11.4325	
2023 Mar.	1.9558	23.683	7.4456	385.01	4.6893	4.9263	11.2276	
Apr.	1.9558	23.437	7.4518	375.34	4.6320	4.9365	11.3370	
May	1.9558	23.595	7.4485	372.37	4.5345	4.9477	11.3697	
June	1.9558	23.695	7.4492	370.60	4.4608	4.9600	11.6766	
July	1.9558	23.892	7.4508	379.04	4.4431	4.9411	11.6343	
Aug.	1.9558	24.108	7.4522	385.05	4.4601	4.9411	11.8117	
Sep.	1.9558	24.380	7.4566	386.43	4.5981	4.9656	11.8417	
Oct.	1.9558	24.584	7.4604	385.33	4.5124	4.9682	11.6472	
Nov.	1.9558	24.485	7.4581	379.19	4.4020	4.9703	11.5475	
Dec.	1.9558	24.478	7.4556	381.80	4.3335	4.9707	11.2028	
2024 Jan.	1.9558	24.716	7.4572	382.04	4.3648	4.9749	11.2834	
Feb.	1.9558	25.232	7.4550	388.04	4.3256	4.9746	11.2500	
Mar.	1.9558	25.292	7.4566	395.09	4.3069	4.9708	11.3054	
Apr.	1.9558	25.278	7.4596	392.41	4.3026	4.9730	11.5910	
May	1.9558	24.819	7.4606	387.18	4.2796	4.9754	11.6186	
June	1.9558	24.779	7.4592	394.76	4.3209	4.9767	11.2851	
July	1.9558	25.299	7.4606	392.84	4.2817	4.9730	11.5324	
Aug.	1.9558	25.179	7.4614	394.70	4.2917	4.9766	11.4557	
Sep.	1.9558	25.099	7.4600	394.86	4.2761	4.9744	11.3577	
Oct.	1.9558	25.298	7.4593	401.90	4.3170	4.9750	11.4048	
Nov.	1.9558	25.301	7.4583	409.25	4.3317	4.9762	11.5828	
Dec.	1.9558	25.136	7.4589	411.99	4.2704	4.9749	11.5040	
2025 Jan.	1.9558	25.163	7.4609	411.73	4.2467	4.9752	11.4797	
Feb.	1.9558	25.077	7.4592	403.13	4.1722	4.9770	11.2474	
Mar.	1.9558	25.001	7.4597	399.81	4.1820	4.9768	10.9675	
Apr.	1.9558	25.039	7.4648	406.44	4.2652	4.9775	10.9744	

Other European and non-European countries							
Period	Australia	Brazil	Canada	China	Hong Kong	Iceland	India
	Australian dollar AUD	Brazilian real BRL	Canadian dollar CAD	Yuan (renminbi) CNY	Hong Kong dollar HKD	Icelandic krona ISK	Indian rupee INR
2023	1.6288	5.4010	1.4595	7.6600	8.4650	149.13	89.3001
2024	1.6397	5.8283	1.4821	7.7875	8.4454	149.31	90.5563
2023 Mar.	1.6034	5.5784	1.4649	7.3807	8.4026	149.89	88.1159
Apr.	1.6389	5.4995	1.4792	7.5561	8.6093	149.62	89.9311
May	1.6346	5.4092	1.4687	7.5948	8.5167	150.47	89.4602
June	1.6157	5.2695	1.4414	7.7653	8.4899	149.35	89.1134
July	1.6423	5.3099	1.4618	7.9482	8.6437	146.79	90.8395
Aug.	1.6818	5.3427	1.4703	7.9096	8.5370	143.87	90.3518
Sep.	1.6622	5.2770	1.4458	7.7967	8.3640	144.46	88.7372
Oct.	1.6637	5.3509	1.4474	7.7200	8.2648	146.50	87.8937
Nov.	1.6634	5.2963	1.4828	7.8087	8.4380	151.44	90.0102
Dec.	1.6321	5.3428	1.4653	7.7870	8.5152	150.55	90.8009
2024 Jan.	1.6422	5.3569	1.4631	7.8201	8.5244	149.43	90.6347
Feb.	1.6533	5.3559	1.4564	7.7651	8.4432	148.68	89.5608
Mar.	1.6586	5.4157	1.4726	7.8297	8.5049	149.04	90.2515
Apr.	1.6469	5.4975	1.4661	7.7658	8.4006	150.35	89.4676
May	1.6317	5.5529	1.4780	7.8206	8.4458	150.00	90.1573
June	1.6206	5.7884	1.4750	7.8051	8.4023	149.36	89.8106
July	1.6257	6.0053	1.4868	7.8750	8.4684	149.43	90.6557
Aug.	1.6559	6.1193	1.5049	7.8736	8.5849	151.84	92.4062
Sep.	1.6398	6.1528	1.5037	7.8611	8.6528	152.21	93.0808
Oct.	1.6250	6.1195	1.4993	7.7276	8.4726	149.07	91.6266
Nov.	1.6267	6.1729	1.4855	7.6617	8.2699	146.72	89.6717
Dec.	1.6529	6.3843	1.4915	7.6298	8.1459	145.24	89.0453
2025 Jan.	1.6626	6.2408	1.4904	7.5560	8.0605	145.40	89.3418
Feb.	1.6528	6.0053	1.4893	7.5749	8.1031	146.26	90.6346
Mar.	1.7158	6.2368	1.5518	7.8353	8.4000	145.26	93.4985
Apr.	1.7844	6.4759	1.5701	8.1850	8.7071	145.00	95.9723

* See Explanatory notes, p. 48. + Averages: Bundesbank calculations based on the daily euro foreign exchange reference rates published by the ECB.

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

2. Annual and monthly averages + (cont'd)

EUR 1 = CU ...

Other European and non-European countries (cont'd)								
	Indonesia	Israel	Japan	Korea, Republic of	Malaysia	Mexico	New Zealand	Norway
Period	Indonesian rupiah IDR	New shekel ILS	Japanese yen JPY	South Korean won KRW	Malaysian ringgit MYR	Mexican peso MXN	New Zealand dollar NZD	Norwegian krone NOK
2023	16,479.62	3.9880	151.99	1,412.88	4.9320	19.1830	1.7622	11.4248
2024	17,157.68	4.0067	163.85	1,475.40	4.9503	19.8314	1.7880	11.6290
2023 Mar.	16,364.98	3.8742	143.01	1,398.25	4.7816	19.7242	1.7242	11.2858
Apr.	16,313.20	3.9877	146.51	1,452.07	4.8561	19.8195	1.7673	11.5187
May	16,116.84	3.9863	148.93	1,442.31	4.9119	19.2755	1.7481	11.7330
June	16,194.88	3.9502	153.15	1,406.43	5.0208	18.6993	1.7686	11.7164
July	16,639.99	4.0546	155.94	1,419.16	5.0754	18.7085	1.7758	11.3474
Aug.	16,639.40	4.0861	157.96	1,443.24	5.0294	18.5202	1.8195	11.4127
Sep.	16,424.67	4.0793	157.80	1,424.53	5.0024	18.4757	1.8012	11.4525
Oct.	16,646.67	4.2034	158.04	1,427.33	5.0142	19.0882	1.7916	11.6284
Nov.	16,853.56	4.1118	161.84	1,412.57	5.0667	18.7877	1.8033	11.7958
Dec.	16,910.33	4.0057	157.21	1,423.13	5.0826	18.7665	1.7556	11.5333
2024 Jan.	17,049.43	4.0493	159.46	1,447.18	5.1105	18.6268	1.7673	11.3501
Feb.	16,898.59	3.9345	161.38	1,437.37	5.1468	18.4425	1.7618	11.3843
Mar.	17,063.66	3.9442	162.77	1,448.12	5.1272	18.2610	1.7869	11.5214
Apr.	17,258.77	4.0240	165.03	1,469.42	5.1139	18.0066	1.7992	11.6828
May	17,375.67	4.0062	168.54	1,474.96	5.0971	18.1549	1.7819	11.5988
June	17,595.94	4.0074	169.81	1,485.38	5.0680	19.6134	1.7539	11.4178
July	17,623.29	3.9902	171.17	1,499.62	5.0737	19.6397	1.7985	11.7160
Aug.	17,347.75	4.1079	161.06	1,488.61	4.8605	21.0823	1.8112	11.7895
Sep.	17,020.23	4.1452	159.08	1,478.72	4.7341	21.7625	1.7845	11.7852
Oct.	16,988.19	4.1020	163.20	1,484.59	4.6883	21.4603	1.7917	11.7907
Nov.	16,817.07	3.9523	163.23	1,482.25	4.7141	21.6152	1.7967	11.7408
Dec.	16,810.95	3.7896	161.08	1,506.85	4.6728	21.2338	1.8217	11.7447
2025 Jan.	16,832.40	3.7450	161.92	1,503.60	4.6232	21.2951	1.8393	11.7456
Feb.	17,020.42	3.7149	158.09	1,505.02	4.6261	21.3268	1.8337	11.6574
Mar.	17,800.79	3.9523	161.17	1,576.45	4.7927	21.8760	1.8879	11.5472
Apr.	18,871.74	4.1460	161.67	1,617.41	4.9510	22.5071	1.9256	11.8380

Other European and non-European countries (cont'd)								
	Philippines	Singapore	South Africa	Switzerland	Thailand	Turkey	United Kingdom	United States
Period	Philippine peso PHP	Singapore dollar SGD	South African rand ZAR	Swiss franc CHF	Thai baht THB	Turkish lira TRY	Pound sterling GBP	US dollar USD
2023	60.163	1.4523	19.9551	0.9718	37.631	25.7597	0.86979	1.0813
2024	62.007	1.4458	19.8297	0.9526	38.181	35.5734	0.84662	1.0824
2023 Mar.	58.581	1.4354	19.5602	0.9908	36.912	20.3491	0.88192	1.0706
Apr.	60.807	1.4609	19.9205	0.9846	37.549	21.2267	0.88115	1.0968
May	60.604	1.4555	20.6864	0.9751	37.166	21.4918	0.87041	1.0868
June	60.475	1.4596	20.3033	0.9764	37.852	25.7697	0.85861	1.0840
July	60.690	1.4753	20.1074	0.9663	38.243	29.3212	0.85856	1.1058
Aug.	61.461	1.4735	20.4723	0.9588	38.195	29.3788	0.85892	1.0909
Sep.	60.665	1.4562	20.2780	0.9600	38.301	28.8643	0.86158	1.0684
Oct.	59.994	1.4462	20.1390	0.9547	38.549	29.4506	0.86798	1.0563
Nov.	60.285	1.4575	20.0397	0.9634	38.327	30.9786	0.87045	1.0808
Dec.	60.593	1.4533	20.3373	0.9441	38.176	31.7243	0.86168	1.0903
2024 Jan.	61.090	1.4569	20.5161	0.9368	38.401	32.8165	0.85873	1.0905
Feb.	60.486	1.4513	20.5082	0.9462	38.709	33.2644	0.85466	1.0795
Mar.	60.736	1.4573	20.4955	0.9656	39.079	34.8229	0.85524	1.0872
Apr.	61.171	1.4554	20.2378	0.9761	39.454	34.6926	0.85658	1.0728
May	62.523	1.4606	19.9079	0.9830	39.607	34.8605	0.85564	1.0812
June	63.177	1.4547	19.8144	0.9616	39.492	35.0667	0.84643	1.0759
July	63.416	1.4602	19.7950	0.9676	39.324	35.6969	0.84332	1.0844
Aug.	62.710	1.4488	19.8651	0.9450	38.263	37.1098	0.85150	1.1012
Sep.	62.256	1.4396	19.5634	0.9414	37.012	37.8238	0.84021	1.1106
Oct.	62.655	1.4283	19.1609	0.9386	36.411	37.3473	0.83496	1.0904
Nov.	62.410	1.4206	19.0553	0.9355	36.596	36.6237	0.83379	1.0630
Dec.	61.203	1.4144	19.0606	0.9339	35.794	36.6588	0.82804	1.0479
2025 Jan.	60.479	1.4092	19.3821	0.9414	35.444	36.8091	0.83908	1.0354
Feb.	60.443	1.4022	19.2451	0.9413	35.189	37.6927	0.83071	1.0413
Mar.	62.013	1.4441	19.7403	0.9548	36.522	40.1683	0.83703	1.0807
Apr.	63.744	1.4852	21.1972	0.9370	37.883	42.7740	0.85379	1.1214

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