

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

### 2. Annual and monthly averages +

EUR 1 = CU ...

EU member countries								
	Bulgaria	Croatia <sup>1</sup>	Czechia	Denmark	Hungary	Poland	Romania	Sweden
Period	Bulgarian lev BGN	Kuna HRK	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
2022 Dec.	1.9558	7.5448	24.269	7.4377	407.68	4.6832	4.9224	10.9859
2023 Jan.	1.9558	–	23.958	7.4383	396.03	4.6974	4.9242	11.2051
Feb.	1.9558	–	23.712	7.4447	384.91	4.7415	4.9087	11.1725
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

Other European and non-European countries								
	Australia	Brazil	Canada	China	Hong Kong	Iceland	India	Indonesia
	Australian dollar AUD	Brazilian real BRL	Canadian dollar CAD	Yuan (renminbi) CNY	Hong Kong dollar HKD	Icelandic krona ISK	Indian rupee INR	Indonesian rupiah IDR
2023	1.6288	5.4010	1.4595	7.6600	8.4650	149.13	89.3001	16,479.62
2024	1.6397	5.8283	1.4821	7.7875	8.4454	149.31	90.5563	17,157.68
2022 Dec.	1.5685	5.5589	1.4379	7.3859	8.2434	150.76	87.3381	16,503.30
2023 Jan.	1.5523	5.6047	1.4474	7.3173	8.4217	154.06	88.1441	16,427.04
Feb.	1.5514	5.5386	1.4400	7.3244	8.4077	153.11	88.5004	16,232.58
Mar.	1.6034	5.5784	1.4649	7.3807	8.4026	149.89	88.1159	16,364.98
Apr.	1.6389	5.4995	1.4792	7.5561	8.6093	149.62	89.9311	16,313.20
May	1.6346	5.4092	1.4687	7.5948	8.5167	150.47	89.4602	16,116.84
June	1.6157	5.2695	1.4414	7.7653	8.4899	149.35	89.1134	16,194.88
July	1.6423	5.3099	1.4618	7.9482	8.6437	146.79	90.8395	16,639.99
Aug.	1.6818	5.3427	1.4703	7.9096	8.5370	143.87	90.3518	16,639.40
Sep.	1.6622	5.2770	1.4458	7.7967	8.3640	144.46	88.7372	16,424.67
Oct.	1.6637	5.3509	1.4474	7.7200	8.2648	146.50	87.8937	16,646.67
Nov.	1.6634	5.2963	1.4828	7.8087	8.4380	151.44	90.0102	16,853.56
Dec.	1.6321	5.3428	1.4653	7.7870	8.5152	150.55	90.8009	16,910.33
2024 Jan.	1.6422	5.3569	1.4631	7.8201	8.5244	149.43	90.6347	17,049.43
Feb.	1.6533	5.3559	1.4564	7.7651	8.4432	148.68	89.5608	16,898.59
Mar.	1.6586	5.4157	1.4726	7.8297	8.5049	149.04	90.2515	17,063.66
Apr.	1.6469	5.4975	1.4661	7.7658	8.4006	150.35	89.4676	17,258.77
May	1.6317	5.5529	1.4780	7.8206	8.4458	150.00	90.1573	17,375.67
June	1.6206	5.7884	1.4750	7.8051	8.4023	149.36	89.8106	17,595.94
July	1.6257	6.0053	1.4868	7.8750	8.4684	149.43	90.6557	17,623.29
Aug.	1.6559	6.1193	1.5049	7.8736	8.5849	151.84	92.4062	17,347.75
Sep.	1.6398	6.1528	1.5037	7.8611	8.6528	152.21	93.0808	17,020.23
Oct.	1.6250	6.1195	1.4993	7.7276	8.4726	149.07	91.6266	16,988.19
Nov.	1.6267	6.1729	1.4855	7.6617	8.2699	146.72	89.6717	16,817.07
Dec.	1.6529	6.3843	1.4915	7.6298	8.1459	145.24	89.0453	16,810.95
2025 Jan.	1.6626	6.2408	1.4904	7.5560	8.0605	145.40	89.3418	16,832.40

\* See Explanatory notes, p. 48. + Averages: Bundesbank calculations based on the daily euro foreign exchange reference rates published by the ECB. <sup>1</sup> Accession to the euro area on 1 January 2023.

## 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)									
	Israel	Japan	Korea, Republic of	Malaysia	Mexico	New Zealand	Norway	Philippines	
Period	New shekel ILS	Japanese yen JPY	South Korean won KRW	Malaysian ringgit MYR	Mexican peso MXN	New Zealand dollar NZD	Norwegian krone NOK	Philippine peso PHP	
2023	3.9880	151.99	1,412.88	4.9320	19.1830	1.7622	11.4248	60.163	
2024	4.0067	163.85	1,475.40	4.9503	19.8314	1.7880	11.6290	62.007	
2022 Dec.	3.6562	142.82	1,370.59	4.6721	20.7608	1.6660	10.4480	58.888	
2023 Jan.	3.7126	140.54	1,341.38	4.6589	20.4573	1.6851	10.7149	59.162	
Feb.	3.7975	142.38	1,368.77	4.6794	19.9543	1.7016	10.9529	58.743	
Mar.	3.8742	143.01	1,398.25	4.7816	19.7242	1.7242	11.2858	58.581	
Apr.	3.9877	146.51	1,452.07	4.8561	19.8195	1.7673	11.5187	60.807	
May	3.9863	148.93	1,442.31	4.9119	19.2755	1.7481	11.7330	60.604	
June	3.9502	153.15	1,406.43	5.0208	18.6993	1.7686	11.7164	60.475	
July	4.0546	155.94	1,419.16	5.0754	18.7085	1.7758	11.3474	60.690	
Aug.	4.0861	157.96	1,443.24	5.0294	18.5202	1.8195	11.4127	61.461	
Sep.	4.0793	157.80	1,424.53	5.0024	18.4757	1.8012	11.4525	60.665	
Oct.	4.2034	158.04	1,427.33	5.0142	19.0882	1.7916	11.6284	59.994	
Nov.	4.1118	161.84	1,412.57	5.0667	18.7877	1.8033	11.7958	60.285	
Dec.	4.0057	157.21	1,423.13	5.0826	18.7665	1.7556	11.5333	60.593	
2024 Jan.	4.0493	159.46	1,447.18	5.1105	18.6268	1.7673	11.3501	61.090	
Feb.	3.9345	161.38	1,437.37	5.1468	18.4425	1.7618	11.3843	60.486	
Mar.	3.9442	162.77	1,448.12	5.1272	18.2610	1.7869	11.5214	60.736	
Apr.	4.0240	165.03	1,469.42	5.1139	18.0066	1.7992	11.6828	61.171	
May	4.0062	168.54	1,474.96	5.0971	18.1549	1.7819	11.5988	62.523	
June	4.0074	169.81	1,485.38	5.0680	19.6134	1.7539	11.4178	63.177	
July	3.9902	171.17	1,499.62	5.0737	19.6397	1.7985	11.7160	63.416	
Aug.	4.1079	161.06	1,488.61	4.8605	21.0823	1.8112	11.7895	62.710	
Sep.	4.1452	159.08	1,478.72	4.7341	21.7625	1.7845	11.7852	62.256	
Oct.	4.1020	163.20	1,484.59	4.6883	21.4603	1.7917	11.7907	62.655	
Nov.	3.9523	163.23	1,482.25	4.7141	21.6152	1.7967	11.7408	62.410	
Dec.	3.7896	161.08	1,506.85	4.6728	21.2338	1.8217	11.7447	61.203	
2025 Jan.	3.7450	161.92	1,503.60	4.6232	21.2951	1.8393	11.7456	60.479	

Other European and non-European countries (cont'd)									
	Singapore	South Africa	Switzerland	Thailand	Turkey	United Kingdom	United States		
Period	Singapore dollar SGD	South African rand ZAR	Swiss franc CHF	Thai baht THB	Turkish lira TRY	Pound sterling GBP	US dollar USD		
2023	1.4523	19.9551	0.9718	37.631	25.7597	0.86979	1.0813		
2024	1.4458	19.8297	0.9526	38.181	35.5734	0.84662	1.0824		
2022 Dec.	1.4313	18.3036	0.9865	36.817	19.7613	0.86950	1.0589		
2023 Jan.	1.4283	18.4320	0.9961	35.840	20.2312	0.88212	1.0769		
Feb.	1.4262	19.1765	0.9905	36.486	20.1981	0.88550	1.0715		
Mar.	1.4354	19.5602	0.9908	36.912	20.3491	0.88192	1.0706		
Apr.	1.4609	19.9205	0.9846	37.549	21.2267	0.88115	1.0968		
May	1.4555	20.6864	0.9751	37.166	21.4918	0.87041	1.0868		
June	1.4596	20.3033	0.9764	37.852	25.7697	0.85861	1.0840		
July	1.4753	20.1074	0.9663	38.243	29.3212	0.85856	1.1058		
Aug.	1.4735	20.4723	0.9588	38.195	29.3788	0.85892	1.0909		
Sep.	1.4562	20.2780	0.9600	38.301	28.8643	0.86158	1.0684		
Oct.	1.4462	20.1390	0.9547	38.549	29.4506	0.86798	1.0563		
Nov.	1.4575	20.0397	0.9634	38.327	30.9786	0.87045	1.0808		
Dec.	1.4533	20.3373	0.9441	38.176	31.7243	0.86168	1.0903		
2024 Jan.	1.4569	20.5161	0.9368	38.401	32.8165	0.85873	1.0905		
Feb.	1.4513	20.5082	0.9462	38.709	33.2644	0.85466	1.0795		
Mar.	1.4573	20.4955	0.9656	39.079	34.8229	0.85524	1.0872		
Apr.	1.4554	20.2378	0.9761	39.454	34.6926	0.85658	1.0728		
May	1.4606	19.9079	0.9830	39.607	34.8605	0.85564	1.0812		
June	1.4547	19.8144	0.9616	39.492	35.0667	0.84643	1.0759		
July	1.4602	19.7950	0.9676	39.324	35.6969	0.84332	1.0844		
Aug.	1.4488	19.8651	0.9450	38.263	37.1098	0.85150	1.1012		
Sep.	1.4396	19.5634	0.9414	37.012	37.8238	0.84021	1.1106		
Oct.	1.4283	19.1609	0.9386	36.411	37.3473	0.83496	1.0904		
Nov.	1.4206	19.0553	0.9355	36.596	36.6237	0.83379	1.0630		
Dec.	1.4144	19.0606	0.9339	35.794	36.6588	0.82804	1.0479		
2025 Jan.	1.4092	19.3821	0.9414	35.444	36.8091	0.83908	1.0354		

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