

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 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
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
2024 Oct.	14	1.9558	25.263	7.4613	400.78	4.2893	4.9743	11.3735
	15	1.9558	25.242	7.4610	400.48	4.2938	4.9758	11.3010
	16	1.9558	25.296	7.4610	401.00	4.3000	4.9761	11.3460
	17	1.9558	25.256	7.4605	399.73	4.3113	4.9738	11.4180
	18	1.9558	25.229	7.4576	400.05	4.3085	4.9733	11.4205
	21	1.9558	25.268	7.4587	401.60	4.3175	4.9728	11.4275
	22	1.9558	25.252	7.4576	400.03	4.3170	4.9737	11.4005
	23	1.9558	25.235	7.4583	401.83	4.3433	4.9737	11.4120
	24	1.9558	25.230	7.4598	402.93	4.3435	4.9728	11.4190
	25	1.9558	25.250	7.4609	404.68	4.3478	4.9733	11.4475
	28	1.9558	25.348	7.4585	404.83	4.3500	4.9738	11.4710
	29	1.9558	25.372	7.4588	405.23	4.3480	4.9749	11.5170
	30	1.9558	25.377	7.4606	408.38	4.3463	4.9747	11.5660
	31	1.9558	25.327	7.4601	408.28	4.3508	4.9749	11.6308
Nov.	1	1.9558	25.330	7.4562	407.75	4.3543	4.9745	11.6115
	4	1.9558	25.288	7.4578	407.83	4.3423	4.9750	11.6445
	5	1.9558	25.343	7.4586	409.25	4.3580	4.9756	11.6665
	6	1.9558	25.339	7.4570	410.08	4.3493	4.9755	11.6515
	7	1.9558	25.262	7.4574	404.58	4.3253	4.9759	11.5990
	8	1.9558	25.208	7.4573	406.68	4.3255	4.9748	11.5900

		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 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
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
2024 Oct.	14	1.6248	6.1443	1.5047	7.7332	8.4718	149.30	91.7290
	15	1.6236	6.0949	1.5063	7.7574	8.4690	149.30	91.6220
	16	1.6291	6.1432	1.5013	7.7511	8.4676	149.50	91.5500
	17	1.6228	6.1749	1.4975	7.7385	8.4477	149.10	91.3240
	18	1.6165	6.1328	1.4960	7.7065	8.4270	149.10	91.1980
	21	1.6230	6.1953	1.4998	7.7198	8.4351	149.30	91.2440
	22	1.6177	6.1636	1.4964	7.7052	8.4110	149.30	90.9710
	23	1.6233	6.1583	1.4900	7.6759	8.3656	149.30	90.5370
	24	1.6234	6.1487	1.4922	7.6848	8.3926	148.70	90.7960
	25	1.6311	6.1420	1.4989	7.7123	8.4110	149.10	91.0270
	28	1.6372	6.1550	1.5030	7.7099	8.4072	149.10	90.9580
	29	1.6423	6.1613	1.4981	7.6895	8.3716	148.70	90.5700
	30	1.6460	6.2564	1.5072	7.7054	8.4050	148.50	90.9430
	31	1.6559	6.2635	1.5134	7.7436	8.4598	148.90	91.4930
Nov.	1	1.6530	6.2813	1.5144	7.7403	8.4660	149.10	91.4955
	4	1.6516	6.3344	1.5155	7.7363	8.4761	148.90	91.7180
	5	1.6452	6.3039	1.5128	7.7405	8.4687	148.90	91.6565
	6	1.6301	6.2127	1.4893	7.6779	8.3167	148.30	90.1810
	7	1.6196	6.0988	1.4960	7.7159	8.3818	148.30	90.9355
	8	1.6259	6.2034	1.4983	7.7233	8.3745	148.70	90.8900

* 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 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	
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	
2024 Oct. 14	17,019.81	4.1029	163.39	1,484.03	4.6880	21.0353	1.7948	11.7465	
15	16,927.02	4.0905	162.85	1,482.73	4.6986	21.2097	1.7902	11.7660	
16	16,919.28	4.1013	162.57	1,483.10	4.6803	21.4791	1.7924	11.8015	
17	16,853.38	4.0823	162.50	1,488.83	4.6832	21.7135	1.7903	11.8735	
18	16,803.96	4.0226	162.75	1,488.05	4.6691	21.4076	1.7865	11.8115	
21	16,816.56	4.0948	162.79	1,495.73	4.6744	21.6539	1.7920	11.8380	
22	16,843.32	4.0871	163.22	1,491.66	4.6833	21.5202	1.7870	11.8230	
23	16,872.70	4.0845	164.66	1,491.54	4.6836	21.6115	1.7918	11.8525	
24	16,827.69	4.0804	164.12	1,489.82	4.6963	21.3667	1.7914	11.8155	
25	16,978.90	4.1062	164.45	1,504.09	4.7024	21.4408	1.8025	11.8195	
28	17,016.01	4.0327	165.18	1,496.45	4.7177	21.6223	1.8059	11.9120	
29	16,993.40	4.0298	165.66	1,496.40	4.7172	21.5719	1.8076	11.8415	
30	16,966.73	4.0214	165.91	1,493.02	4.7359	21.8174	1.8099	11.8785	
31	17,105.85	4.0441	166.30	1,500.05	4.7652	21.8087	1.8220	11.9385	
Nov. 1	17,132.28	4.0681	165.54	1,498.21	4.7660	21.7247	1.8164	11.9600	
4	17,190.86	4.0879	165.47	1,497.97	4.7678	21.9187	1.8196	11.9465	
5	17,180.21	4.0828	165.93	1,503.71	4.7353	21.9579	1.8169	11.9600	
6	16,976.60	4.0115	165.05	1,500.90	4.7095	22.0755	1.7997	11.9090	
7	16,889.15	4.0094	165.71	1,495.78	4.7492	21.3897	1.7932	11.7485	
8	16,801.68	4.0240	164.18	1,495.41	4.7208	21.5349	1.7970	11.7735	

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 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	
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	
2024 Oct. 14	62.767	1.4277	19.1618	0.9409	36.303	37.4118	0.83665	1.0915	
15	63.068	1.4271	19.1651	0.9401	36.345	37.3517	0.83355	1.0903	
16	62.947	1.4264	19.1283	0.9397	36.102	37.2788	0.83605	1.0897	
17	62.854	1.4261	19.2606	0.9380	36.051	37.1170	0.83455	1.0866	
18	62.359	1.4235	19.0769	0.9401	35.996	37.1970	0.83165	1.0847	
21	62.527	1.4246	19.1176	0.9380	36.309	37.1763	0.83315	1.0853	
22	62.580	1.4231	19.0184	0.9365	36.229	37.0599	0.83340	1.0821	
23	62.513	1.4237	19.0355	0.9340	36.355	36.9250	0.83148	1.0767	
24	62.521	1.4249	19.0900	0.9349	36.329	36.9788	0.83210	1.0801	
25	63.118	1.4290	19.0627	0.9382	36.540	37.1180	0.83358	1.0825	
28	62.969	1.4302	19.1877	0.9367	36.538	37.1009	0.83290	1.0818	
29	62.857	1.4287	19.1063	0.9369	36.400	36.9491	0.83020	1.0774	
30	63.010	1.4329	19.1535	0.9393	36.522	37.0855	0.83425	1.0815	
31	63.364	1.4377	19.1869	0.9412	36.754	37.2680	0.83753	1.0882	
Nov. 1	63.525	1.4392	19.1111	0.9427	36.873	37.3758	0.83998	1.0885	
4	63.762	1.4356	19.1248	0.9410	36.736	37.4528	0.84063	1.0904	
5	63.553	1.4351	19.0277	0.9402	36.652	37.4292	0.83920	1.0897	
6	62.949	1.4281	18.9842	0.9368	36.705	36.6357	0.83223	1.0695	
7	63.100	1.4258	18.7328	0.9432	36.798	36.9319	0.83185	1.0785	
8	62.850	1.4251	18.8777	0.9393	36.695	37.0104	0.83188	1.0772	

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