

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

1. End-of-month and daily rates

EUR 1 = CU ...

Period		EU member countries						
		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 Mar.		1.9558	23.492	7.4485	379.50	4.6700	4.9490	11.2805
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
2024 Apr.	2	1.9558	25.361	7.4582	395.63	4.2938	4.9699	11.5575
	3	1.9558	25.352	7.4589	393.20	4.2968	4.9687	11.5750
	4	1.9558	25.322	7.4589	391.55	4.2955	4.9687	11.5105
	5	1.9558	25.286	7.4590	390.10	4.2835	4.9677	11.5260
	8	1.9558	25.354	7.4588	390.78	4.2773	4.9681	11.4675
	9	1.9558	25.380	7.4590	389.20	4.2565	4.9682	11.4555
	10	1.9558	25.368	7.4594	389.18	4.2563	4.9690	11.4345
	11	1.9558	25.392	7.4604	389.80	4.2570	4.9713	11.5310
	12	1.9558	25.337	7.4603	391.63	4.2603	4.9717	11.5699
	15	1.9558	25.324	7.4606	394.25	4.2938	4.9742	11.5583
	16	1.9558	25.210	7.4609	394.63	4.3435	4.9764	11.6350
	17	1.9558	25.228	7.4611	393.00	4.3508	4.9758	11.6793
	18	1.9558	25.254	7.4616	393.93	4.3255	4.9758	11.6370
	19	1.9558	25.267	7.4622	395.30	4.3300	4.9764	11.6640
	22	1.9558	25.275	7.4615	393.90	4.3188	4.9756	11.6015
	23	1.9558	25.256	7.4607	393.63	4.3158	4.9761	11.6030
	24	1.9558	25.242	7.4575	393.35	4.3193	4.9757	11.6225
	25	1.9558	25.152	7.4587	392.98	4.3165	4.9761	11.6390

Period		Other European and non-European countries						
		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 Mar.		1.6268	5.5158	1.4737	7.4763	8.5367	148.30	89.3995
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
2024 Apr.	2	1.6522	5.4114	1.4577	7.7779	8.4148	150.10	89.6490
	3	1.6539	5.4681	1.4626	7.8023	8.4421	150.10	90.0055
	4	1.6446	5.4751	1.4652	7.8501	8.4957	150.30	90.5116
	5	1.6461	5.4633	1.4702	7.8421	8.4868	150.30	90.3283
	8	1.6433	5.4806	1.4715	7.8282	8.4761	150.30	90.1590
	9	1.6407	5.4489	1.4749	7.8603	8.5096	150.30	90.4135
	10	1.6399	5.4330	1.4728	7.8548	8.5060	150.70	90.3585
	11	1.6448	5.4468	1.4688	7.7646	8.4058	150.30	89.4385
	12	1.6413	5.4442	1.4643	7.7094	8.3478	150.50	88.9140
	15	1.6441	5.4553	1.4645	7.7134	8.3419	150.70	88.8950
	16	1.6578	5.5607	1.4668	7.6995	8.3304	150.70	88.8975
	17	1.6556	5.6044	1.4691	7.7006	8.3307	150.50	89.0080
	18	1.6567	5.5973	1.4687	7.7294	8.3635	150.30	89.1880
	19	1.6622	5.6165	1.4666	7.7139	8.3443	150.30	88.9228
	22	1.6517	5.5427	1.4592	7.7012	8.3316	150.30	88.6280
	23	1.6536	5.5246	1.4623	7.7353	8.3640	150.30	88.9475
	24	1.6421	5.4856	1.4628	7.7431	8.3700	150.30	89.0435
	25	1.6415	5.5050	1.4659	7.7682	8.3920	150.10	89.3155

* 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)								
	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 Mar.	16,300.19	3.9284	144.83	1,420.26	4.7986	19.6392	1.7392	11.3940
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
2024 Apr. 2	17,103.38	3.9826	163.01	1,453.23	5.1106	17.8490	1.8040	11.7080
3	17,196.78	4.0165	163.66	1,456.04	5.1273	17.8782	1.8054	11.6580
4	17,233.19	4.0339	164.69	1,462.46	5.1433	17.9675	1.7998	11.6125
5	17,192.63	4.0725	164.10	1,464.09	5.1462	17.9104	1.8001	11.6118
8	17,217.66	4.0033	164.43	1,468.37	5.1425	17.8053	1.7984	11.5905
9	17,243.05	4.0110	164.97	1,470.98	5.1591	17.7268	1.7938	11.5930
10	17,212.45	4.0324	164.89	1,467.33	5.1558	17.7305	1.7856	11.5665
11	17,189.90	4.0300	164.18	1,469.32	5.0936	17.6448	1.7920	11.6180
12	17,171.88	4.0175	163.16	1,469.79	5.0810	17.5982	1.7872	11.5870
15	17,111.78	3.9578	164.05	1,473.79	5.0925	17.6561	1.7943	11.6260
16	17,234.12	4.0001	164.54	1,481.62	5.0973	17.9141	1.8072	11.6745
17	17,290.58	4.0173	164.54	1,471.92	5.0972	18.0761	1.8012	11.6960
18	17,279.69	4.0363	164.82	1,467.41	5.1083	18.0940	1.8013	11.7375
19	17,325.08	4.0181	164.68	1,469.09	5.0959	18.4819	1.8105	11.7650
22	17,279.87	4.0054	164.51	1,467.64	5.0800	18.2059	1.8004	11.7185
23	17,302.61	4.0422	165.23	1,471.21	5.1022	18.2732	1.8047	11.7310
24	17,277.66	4.0339	165.57	1,469.91	5.1058	18.0824	1.8010	11.7330
25	17,355.14	4.0646	166.76	1,473.23	5.1215	18.2670	1.7990	11.7140

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 Mar.	59.050	1.4464	19.3275	0.9968	37.111	20.8632	0.87920	1.0875
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
2024 Apr. 2	60.506	1.4535	20.2399	0.9765	39.395	34.6033	0.85510	1.0749
3	60.817	1.4571	20.2667	0.9792	39.584	34.4418	0.85713	1.0783
4	61.243	1.4628	20.2704	0.9846	39.881	34.6065	0.85788	1.0852
5	61.268	1.4608	20.1710	0.9793	39.743	34.6312	0.85773	1.0841
8	61.204	1.4607	20.1574	0.9807	39.769	34.8481	0.85795	1.0823
9	61.301	1.4623	20.0861	0.9819	39.529	34.9828	0.85663	1.0867
10	61.408	1.4605	20.0851	0.9810	39.536	35.0329	0.85515	1.0860
11	60.577	1.4518	20.1614	0.9787	39.220	34.6336	0.85525	1.0729
12	60.256	1.4478	19.9907	0.9716	38.853	34.4334	0.85424	1.0652
15	60.558	1.4498	20.2067	0.9725	39.124	34.5291	0.85405	1.0656
16	60.561	1.4509	20.2104	0.9712	38.958	34.5720	0.85440	1.0637
17	60.879	1.4495	20.2752	0.9693	39.180	34.6054	0.85400	1.0638
18	61.127	1.4520	20.3461	0.9704	39.251	34.7035	0.85628	1.0679
19	61.373	1.4510	20.4793	0.9680	39.288	34.7304	0.85620	1.0653
22	61.134	1.4490	20.3468	0.9693	39.392	34.5943	0.86328	1.0632
23	61.440	1.4543	20.5340	0.9724	39.536	34.7807	0.86050	1.0674
24	61.487	1.4547	20.5062	0.9774	39.602	34.7497	0.85945	1.0686
25	61.940	1.4581	20.3377	0.9792	39.691	34.8475	0.85675	1.0720

* See Explanatory notes, p. 48.