

ALKOHOLOMETRICKÉ TABUĽKY

1A. STANOVENIE OBJEMOVEJ KONCENTRÁCIE ETANOLU VO VODNOM ROZTOKU

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pre výpočet hmotnostného zlomku etanolu

Hustota roztoku etanolu a vody "ρ"
pre hmotnostný zlomok etanolu "w_E" a teplotu "t"

"w _E " - hmotnostný zlomok etanolu [%]	teplota merania "t" [°C]										
	15	16	17	18	19	20	21	22	23	24	25
0,0	999,096	998,939	998,771	998,592	998,402	998,201	997,990	997,768	997,536	997,294	997,043
0,1	998,902	998,746	998,578	998,399	998,209	998,009	997,797	997,576	997,344	997,102	996,851
0,2	998,709	998,553	998,386	998,207	998,017	997,817	997,606	997,384	997,152	996,911	996,659
0,3	998,518	998,362	998,194	998,016	997,826	997,626	997,415	997,193	996,962	996,720	996,468
0,4	998,327	998,171	998,004	997,825	997,636	997,435	997,224	997,003	996,771	996,530	996,278
0,5	998,136	997,981	997,814	997,635	997,446	997,246	997,035	996,814	996,582	996,340	996,089
0,6	997,947	997,792	997,625	997,446	997,257	997,057	996,846	996,625	996,393	996,152	995,900
0,7	997,759	997,603	997,436	997,258	997,069	996,869	996,658	996,437	996,205	995,963	995,712
0,8	997,571	997,416	997,249	997,071	996,882	996,681	996,471	996,249	996,018	995,776	995,524
0,9	997,384	997,229	997,062	996,884	996,695	996,495	996,284	996,063	995,831	995,589	995,337
1,0	997,198	997,043	996,876	996,698	996,509	996,309	996,098	995,877	995,645	995,403	995,151
1,1	997,013	996,858	996,691	996,513	996,324	996,124	995,913	995,691	995,459	995,217	994,965
1,2	996,828	996,673	996,506	996,328	996,139	995,939	995,728	995,507	995,275	995,032	994,780
1,3	996,644	996,489	996,322	996,144	995,955	995,755	995,544	995,322	995,090	994,848	994,596
1,4	996,461	996,306	996,139	995,961	995,772	995,572	995,361	995,139	994,907	994,664	994,412
1,5	996,279	996,124	995,957	995,779	995,589	995,389	995,178	994,956	994,724	994,481	994,229
1,6	996,098	995,942	995,775	995,597	995,408	995,207	994,996	994,774	994,542	994,299	994,046
1,7	995,917	995,761	995,594	995,416	995,226	995,026	994,814	994,592	994,360	994,117	993,864
1,8	995,737	995,581	995,414	995,236	995,046	994,845	994,634	994,411	994,179	993,936	993,682
1,9	995,558	995,402	995,235	995,056	994,866	994,665	994,453	994,231	993,998	993,755	993,502
2,0	995,379	995,223	995,056	994,877	994,687	994,486	994,274	994,051	993,818	993,575	993,321
2,1	995,201	995,045	994,878	994,699	994,508	994,307	994,095	993,872	993,639	993,395	993,141
2,2	995,024	994,868	994,700	994,521	994,330	994,129	993,917	993,694	993,460	993,216	992,962
2,3	994,848	994,691	994,523	994,344	994,153	993,952	993,739	993,516	993,282	993,038	992,783
2,4	994,672	994,515	994,347	994,167	993,977	993,775	993,562	993,338	993,104	992,860	992,605
2,5	994,497	994,340	994,171	993,992	993,801	993,598	993,385	993,162	992,927	992,683	992,428
2,6	994,322	994,165	993,997	993,816	993,625	993,423	993,209	992,985	992,751	992,506	992,251
2,7	994,149	993,991	993,822	993,642	993,450	993,248	993,034	992,810	992,575	992,330	992,074
2,8	993,976	993,818	993,649	993,468	993,276	993,073	992,859	992,635	992,400	992,154	991,898
2,9	993,803	993,645	993,476	993,295	993,103	992,899	992,685	992,460	992,225	991,979	991,723
3,0	993,631	993,473	993,303	993,122	992,930	992,726	992,512	992,286	992,051	991,804	991,548
3,1	993,460	993,302	993,132	992,950	992,757	992,553	992,339	992,113	991,877	991,630	991,373
3,2	993,290	993,131	992,961	992,779	992,585	992,381	992,166	991,940	991,704	991,457	991,200
3,3	993,120	992,961	992,790	992,608	992,414	992,210	991,994	991,768	991,531	991,284	991,026
3,4	992,951	992,792	992,620	992,438	992,244	992,039	991,823	991,596	991,359	991,111	990,853
3,5	992,783	992,623	992,451	992,268	992,074	991,868	991,652	991,425	991,187	990,939	990,681
3,6	992,615	992,454	992,282	992,099	991,904	991,698	991,482	991,254	991,016	990,768	990,509
3,7	992,448	992,287	992,114	991,930	991,735	991,529	991,312	991,084	990,846	990,597	990,338
3,8	992,281	992,120	991,947	991,763	991,567	991,360	991,143	990,915	990,676	990,426	990,167
3,9	992,115	991,953	991,780	991,595	991,399	991,192	990,974	990,746	990,506	990,257	989,997
4,0	991,950	991,788	991,614	991,429	991,232	991,025	990,806	990,577	990,337	990,087	989,827
4,1	991,785	991,622	991,448	991,262	991,066	990,858	990,639	990,409	990,169	989,918	989,657
4,2	991,621	991,458	991,283	991,097	990,899	990,691	990,472	990,242	990,001	989,750	989,488
4,3	991,457	991,294	991,118	990,932	990,734	990,525	990,305	990,075	989,833	989,582	989,320
4,4	991,294	991,130	990,955	990,767	990,569	990,360	990,139	989,908	989,666	989,414	989,152
4,5	991,132	990,967	990,791	990,604	990,405	990,195	989,974	989,742	989,500	989,247	988,985
4,6	990,970	990,805	990,628	990,440	990,241	990,030	989,809	989,577	989,334	989,081	988,818
4,7	990,809	990,643	990,466	990,277	990,077	989,866	989,644	989,412	989,168	988,915	988,651
4,8	990,649	990,482	990,304	990,115	989,915	989,703	989,480	989,247	989,003	988,749	988,485
4,9	990,489	990,322	990,143	989,953	989,752	989,540	989,317	989,083	988,839	988,584	988,319

Hustota roztoku etanolu a vody "ρ"
pre hmotnostný zlomok etanolu "w_E" a teplotu "t"

"w _E " - hmotnostný zlomok etanolu [%]	teplota merania "t" [°C]										
	15	16	17	18	19	20	21	22	23	24	25
5,0	990,329	990,162	989,983	989,792	989,591	989,378	989,154	988,920	988,675	988,420	988,154
5,1	990,170	990,002	989,823	989,632	989,429	989,216	988,992	988,757	988,511	988,256	987,990
5,2	990,012	989,844	989,663	989,472	989,269	989,055	988,830	988,594	988,348	988,092	987,825
5,3	989,855	989,685	989,504	989,312	989,109	988,894	988,668	988,432	988,186	987,929	987,661
5,4	989,698	989,528	989,346	989,153	988,949	988,734	988,508	988,271	988,023	987,766	987,498
5,5	989,541	989,370	989,188	988,995	988,790	988,574	988,347	988,110	987,862	987,604	987,335
5,6	989,385	989,214	989,031	988,837	988,631	988,415	988,187	987,949	987,701	987,442	987,173
5,7	989,230	989,058	988,874	988,679	988,473	988,256	988,028	987,789	987,540	987,280	987,011
5,8	989,075	988,902	988,718	988,522	988,315	988,097	987,869	987,629	987,379	987,119	986,849
5,9	988,921	988,747	988,562	988,366	988,158	987,940	987,710	987,470	987,220	986,959	986,688
6,0	988,767	988,593	988,407	988,210	988,002	987,782	987,552	987,311	987,060	986,799	986,527
6,1	988,614	988,439	988,252	988,055	987,845	987,625	987,395	987,153	986,901	986,639	986,367
6,2	988,461	988,285	988,098	987,900	987,690	987,469	987,237	986,995	986,743	986,480	986,207
6,3	988,309	988,133	987,945	987,745	987,535	987,313	987,081	986,838	986,585	986,321	986,047
6,4	988,157	987,980	987,791	987,591	987,380	987,158	986,925	986,681	986,427	986,163	985,888
6,5	988,006	987,828	987,639	987,438	987,226	987,003	986,769	986,524	986,270	986,005	985,730
6,6	987,856	987,677	987,487	987,285	987,072	986,848	986,614	986,368	986,113	985,847	985,571
6,7	987,706	987,526	987,335	987,133	986,919	986,694	986,459	986,213	985,956	985,690	985,413
6,8	987,557	987,376	987,184	986,981	986,766	986,541	986,304	986,058	985,801	985,533	985,256
6,9	987,408	987,226	987,033	986,829	986,614	986,388	986,151	985,903	985,645	985,377	985,099
7,0	987,259	987,077	986,883	986,678	986,462	986,235	985,997	985,749	985,490	985,221	984,942
7,1	987,111	986,928	986,734	986,528	986,311	986,083	985,844	985,595	985,335	985,065	984,786
7,2	986,964	986,780	986,585	986,378	986,160	985,931	985,691	985,441	985,181	984,910	984,630
7,3	986,817	986,632	986,436	986,228	986,009	985,780	985,539	985,288	985,027	984,756	984,474
7,4	986,671	986,485	986,288	986,079	985,859	985,629	985,387	985,136	984,873	984,601	984,319
7,5	986,525	986,338	986,140	985,930	985,710	985,478	985,236	984,983	984,720	984,447	984,164
7,6	986,380	986,192	985,993	985,782	985,561	985,328	985,085	984,832	984,568	984,294	984,010
7,7	986,235	986,046	985,846	985,634	985,412	985,179	984,935	984,680	984,415	984,141	983,856
7,8	986,090	985,901	985,700	985,487	985,264	985,029	984,784	984,529	984,263	983,988	983,702
7,9	985,947	985,756	985,554	985,340	985,116	984,881	984,635	984,378	984,112	983,835	983,549
8,0	985,803	985,611	985,408	985,194	984,969	984,732	984,486	984,228	983,961	983,683	983,396
8,1	985,660	985,468	985,263	985,048	984,822	984,584	984,337	984,078	983,810	983,532	983,243
8,2	985,518	985,324	985,119	984,902	984,675	984,437	984,188	983,929	983,660	983,380	983,091
8,3	985,376	985,181	984,975	984,757	984,529	984,290	984,040	983,780	983,510	983,229	982,939
8,4	985,234	985,038	984,831	984,613	984,383	984,143	983,892	983,631	983,360	983,079	982,788
8,5	985,093	984,896	984,688	984,468	984,238	983,997	983,745	983,483	983,211	982,928	982,636
8,6	984,953	984,755	984,545	984,325	984,093	983,851	983,598	983,335	983,062	982,778	982,485
8,7	984,813	984,613	984,403	984,181	983,949	983,705	983,452	983,187	982,913	982,629	982,335
8,8	984,673	984,473	984,261	984,038	983,805	983,560	983,305	983,040	982,765	982,480	982,185
8,9	984,534	984,332	984,120	983,896	983,661	983,416	983,160	982,893	982,617	982,331	982,035
9,0	984,395	984,192	983,979	983,754	983,518	983,271	983,014	982,747	982,469	982,182	981,885
9,1	984,257	984,053	983,838	983,612	983,375	983,127	982,869	982,601	982,322	982,034	981,736
9,2	984,119	983,914	983,698	983,470	983,232	982,984	982,724	982,455	982,175	981,886	981,587
9,3	983,981	983,775	983,558	983,329	983,090	982,840	982,580	982,309	982,029	981,738	981,438
9,4	983,844	983,637	983,418	983,189	982,948	982,697	982,436	982,164	981,883	981,591	981,290
9,5	983,708	983,499	983,279	983,049	982,807	982,555	982,292	982,020	981,737	981,444	981,142
9,6	983,571	983,362	983,141	982,909	982,666	982,413	982,149	981,875	981,591	981,297	980,994
9,7	983,436	983,225	983,002	982,769	982,525	982,271	982,006	981,731	981,446	981,151	980,847
9,8	983,300	983,088	982,865	982,630	982,385	982,129	981,863	981,587	981,301	981,005	980,699
9,9	983,165	982,952	982,727	982,492	982,245	981,988	981,721	981,444	981,156	980,859	980,553

Hustota roztoku etanolu a vody "ρ"
pre hmotnostný zlomok etanolu "w_E" a teplotu "t"

"w _E " - hmotnostný zlomok etanolu [%]	teplota merania "t" [°C]											
	15	16	17	18	19	20	21	22	23	24	25	
10,0	983,031	982,816	982,590	982,353	982,106	981,848	981,579	981,301	981,012	980,714	980,406	
10,1	982,896	982,680	982,453	982,215	981,966	981,707	981,437	981,158	980,868	980,569	980,260	
10,2	982,763	982,545	982,317	982,078	981,828	981,567	981,296	981,015	980,724	980,424	980,114	
10,3	982,629	982,411	982,181	981,940	981,689	981,427	981,155	980,873	980,581	980,279	979,968	
10,4	982,496	982,276	982,045	981,803	981,551	981,288	981,014	980,731	980,438	980,135	979,822	
10,5	982,364	982,142	981,910	981,667	981,413	981,148	980,874	980,589	980,295	979,991	979,677	
10,6	982,231	982,009	981,775	981,530	981,275	981,010	980,734	980,448	980,152	979,847	979,532	
10,7	982,100	981,875	981,640	981,395	981,138	980,871	980,594	980,307	980,010	979,703	979,387	
10,8	981,968	981,743	981,506	981,259	981,001	980,733	980,454	980,166	979,868	979,560	979,242	
10,9	981,837	981,610	981,372	981,124	980,864	980,595	980,315	980,025	979,726	979,417	979,098	
11,0	981,706	981,478	981,239	980,989	980,728	980,457	980,176	979,885	979,584	979,274	978,954	
11,1	981,576	981,346	981,105	980,854	980,592	980,320	980,037	979,745	979,443	979,131	978,810	
11,2	981,445	981,214	980,972	980,720	980,456	980,183	979,899	979,605	979,302	978,989	978,667	
11,3	981,316	981,083	980,840	980,586	980,321	980,046	979,761	979,466	979,161	978,847	978,523	
11,4	981,186	980,952	980,707	980,452	980,186	979,909	979,623	979,327	979,021	978,705	978,380	
11,5	981,057	980,822	980,575	980,318	980,051	979,773	979,485	979,188	978,880	978,563	978,237	
11,6	980,928	980,691	980,444	980,185	979,916	979,637	979,348	979,049	978,740	978,422	978,094	
11,7	980,800	980,561	980,312	980,052	979,782	979,501	979,211	978,910	978,600	978,281	977,952	
11,8	980,672	980,432	980,181	979,920	979,648	979,366	979,074	978,772	978,461	978,140	977,810	
11,9	980,544	980,302	980,050	979,787	979,514	979,231	978,937	978,634	978,321	977,999	977,667	
12,0	980,416	980,173	979,919	979,655	979,380	979,096	978,801	978,496	978,182	977,858	977,525	
12,1	980,289	980,044	979,789	979,523	979,247	978,961	978,665	978,358	978,043	977,718	977,384	
12,2	980,162	979,916	979,659	979,392	979,114	978,826	978,529	978,221	977,904	977,578	977,242	
12,3	980,035	979,788	979,529	979,260	978,981	978,692	978,393	978,084	977,765	977,438	977,101	
12,4	979,909	979,660	979,400	979,129	978,849	978,558	978,257	977,947	977,627	977,298	976,959	
12,5	979,783	979,532	979,270	978,998	978,716	978,424	978,122	977,810	977,489	977,158	976,818	
12,6	979,657	979,404	979,141	978,868	978,584	978,290	977,987	977,673	977,351	977,019	976,677	
12,7	979,531	979,277	979,012	978,737	978,452	978,157	977,852	977,537	977,213	976,879	976,537	
12,8	979,406	979,150	978,884	978,607	978,320	978,024	977,717	977,401	977,075	976,740	976,396	
12,9	979,281	979,023	978,755	978,477	978,189	977,891	977,582	977,265	976,937	976,601	976,255	
13,0	979,156	978,897	978,627	978,348	978,058	977,758	977,448	977,129	976,800	976,462	976,115	
13,1	979,031	978,771	978,499	978,218	977,926	977,625	977,314	976,993	976,663	976,323	975,975	
13,2	978,907	978,645	978,372	978,089	977,796	977,493	977,180	976,857	976,526	976,185	975,835	
13,3	978,783	978,519	978,244	977,960	977,665	977,360	977,046	976,722	976,389	976,046	975,695	
13,4	978,659	978,393	978,117	977,831	977,534	977,228	976,912	976,587	976,252	975,908	975,555	
13,5	978,535	978,268	977,990	977,702	977,404	977,096	976,779	976,452	976,115	975,770	975,415	
13,6	978,411	978,142	977,863	977,573	977,274	976,964	976,645	976,317	975,979	975,632	975,276	
13,7	978,288	978,017	977,736	977,445	977,144	976,833	976,512	976,182	975,842	975,494	975,136	
13,8	978,165	977,892	977,610	977,317	977,014	976,701	976,379	976,047	975,706	975,356	974,997	
13,9	978,042	977,768	977,483	977,189	976,884	976,570	976,246	975,912	975,570	975,218	974,858	
14,0	977,919	977,643	977,357	977,061	976,754	976,438	976,113	975,778	975,434	975,081	974,719	
14,1	977,797	977,519	977,231	976,933	976,625	976,307	975,980	975,644	975,298	974,943	974,579	
14,2	977,674	977,395	977,105	976,805	976,496	976,176	975,847	975,509	975,162	974,806	974,440	
14,3	977,552	977,271	976,979	976,678	976,366	976,045	975,715	975,375	975,026	974,668	974,301	
14,4	977,430	977,147	976,854	976,550	976,237	975,915	975,583	975,241	974,890	974,531	974,163	
14,5	977,308	977,023	976,728	976,423	976,108	975,784	975,450	975,107	974,755	974,394	974,024	
14,6	977,187	976,900	976,603	976,296	975,980	975,653	975,318	974,973	974,619	974,257	973,885	
14,7	977,065	976,776	976,478	976,169	975,851	975,523	975,186	974,839	974,484	974,120	973,746	
14,8	976,944	976,653	976,353	976,042	975,722	975,393	975,054	974,706	974,349	973,983	973,608	
14,9	976,822	976,530	976,228	975,915	975,594	975,262	974,922	974,572	974,213	973,846	973,469	

Hustota roztoku etanolu a vody "ρ"
pre hmotnostný zlomok etanolu "w_E" a teplotu "t"

"w _E " - hmotnostný zlomok etanolu [%]	teplota merania "t" [°C]										
	15	16	17	18	19	20	21	22	23	24	25
15,0	976,701	976,407	976,103	975,789	975,465	975,132	974,790	974,438	974,078	973,709	973,331
15,1	976,580	976,284	975,978	975,662	975,337	975,002	974,658	974,305	973,943	973,572	973,192
15,2	976,459	976,161	975,853	975,536	975,209	974,872	974,526	974,171	973,808	973,435	973,054
15,3	976,338	976,038	975,729	975,409	975,080	974,742	974,395	974,038	973,672	973,298	972,915
15,4	976,217	975,916	975,604	975,283	974,952	974,612	974,263	973,905	973,537	973,161	972,777
15,5	976,097	975,793	975,480	975,157	974,824	974,482	974,131	973,771	973,402	973,025	972,638
15,6	975,976	975,671	975,355	975,030	974,696	974,353	974,000	973,638	973,267	972,888	972,500
15,7	975,856	975,548	975,231	974,904	974,568	974,223	973,868	973,505	973,132	972,751	972,362
15,8	975,735	975,426	975,107	974,778	974,440	974,093	973,737	973,371	972,997	972,615	972,223
15,9	975,615	975,304	974,983	974,652	974,312	973,963	973,605	973,238	972,862	972,478	972,085
16,0	975,495	975,181	974,858	974,526	974,185	973,834	973,474	973,105	972,727	972,341	971,946
16,1	975,374	975,059	974,734	974,400	974,057	973,704	973,342	972,972	972,592	972,204	971,808
16,2	975,254	974,937	974,610	974,274	973,929	973,574	973,211	972,839	972,457	972,068	971,670
16,3	975,134	974,815	974,486	974,148	973,801	973,445	973,079	972,705	972,322	971,931	971,531
16,4	975,014	974,693	974,362	974,022	973,673	973,315	972,948	972,572	972,187	971,794	971,393
16,5	974,894	974,571	974,238	973,897	973,546	973,186	972,817	972,439	972,052	971,657	971,254
16,6	974,774	974,449	974,114	973,771	973,418	973,056	972,685	972,306	971,917	971,521	971,116
16,7	974,654	974,327	973,990	973,645	973,290	972,926	972,554	972,172	971,782	971,384	970,977
16,8	974,534	974,205	973,866	973,519	973,162	972,797	972,422	972,039	971,647	971,247	970,838
16,9	974,414	974,083	973,743	973,393	973,034	972,667	972,291	971,906	971,512	971,110	970,700
17,0	974,294	973,961	973,619	973,267	972,907	972,537	972,159	971,772	971,377	970,973	970,561
17,1	974,174	973,839	973,495	973,141	972,779	972,407	972,027	971,639	971,242	970,836	970,422
17,2	974,054	973,717	973,371	973,015	972,651	972,278	971,896	971,505	971,106	970,699	970,283
17,3	973,934	973,595	973,246	972,889	972,523	972,148	971,764	971,372	970,971	970,562	970,144
17,4	973,814	973,473	973,122	972,763	972,395	972,018	971,632	971,238	970,836	970,425	970,005
17,5	973,694	973,351	972,998	972,637	972,267	971,888	971,501	971,104	970,700	970,287	969,866
17,6	973,574	973,228	972,874	972,511	972,139	971,758	971,369	970,971	970,564	970,150	969,727
17,7	973,453	973,106	972,750	972,385	972,011	971,628	971,237	970,837	970,429	970,012	969,588
17,8	973,333	972,984	972,626	972,258	971,883	971,498	971,105	970,703	970,293	969,875	969,449
17,9	973,213	972,862	972,501	972,132	971,754	971,368	970,973	970,569	970,157	969,737	969,309
18,0	973,093	972,739	972,377	972,006	971,626	971,237	970,840	970,435	970,021	969,599	969,170
18,1	972,972	972,617	972,252	971,879	971,497	971,107	970,708	970,301	969,885	969,462	969,030
18,2	972,852	972,494	972,128	971,753	971,369	970,977	970,576	970,167	969,749	969,324	968,890
18,3	972,731	972,372	972,003	971,626	971,240	970,846	970,443	970,032	969,613	969,186	968,750
18,4	972,611	972,249	971,879	971,499	971,112	970,715	970,311	969,898	969,477	969,047	968,610
18,5	972,490	972,126	971,754	971,373	970,983	970,584	970,178	969,763	969,340	968,909	968,470
18,6	972,369	972,003	971,629	971,246	970,854	970,454	970,045	969,628	969,203	968,771	968,330
18,7	972,249	971,881	971,504	971,119	970,725	970,323	969,912	969,493	969,067	968,632	968,189
18,8	972,128	971,757	971,379	970,991	970,596	970,191	969,779	969,358	968,930	968,493	968,049
18,9	972,006	971,634	971,253	970,864	970,466	970,060	969,646	969,223	968,793	968,354	967,908
19,0	971,885	971,511	971,128	970,737	970,337	969,929	969,513	969,088	968,656	968,215	967,767
19,1	971,764	971,387	971,003	970,609	970,207	969,797	969,379	968,953	968,518	968,076	967,626
19,2	971,643	971,264	970,877	970,481	970,078	969,666	969,245	968,817	968,381	967,937	967,485
19,3	971,521	971,140	970,751	970,354	969,948	969,534	969,112	968,681	968,243	967,798	967,344
19,4	971,399	971,016	970,625	970,226	969,818	969,402	968,978	968,546	968,106	967,658	967,202
19,5	971,277	970,892	970,499	970,097	969,688	969,270	968,844	968,410	967,968	967,518	967,061
19,6	971,155	970,768	970,373	969,969	969,557	969,137	968,709	968,273	967,830	967,378	966,919
19,7	971,033	970,644	970,246	969,841	969,427	969,005	968,575	968,137	967,691	967,238	966,777
19,8	970,911	970,519	970,120	969,712	969,296	968,872	968,440	968,001	967,553	967,098	966,635
19,9	970,788	970,395	969,993	969,583	969,165	968,739	968,306	967,864	967,414	966,957	966,493

Hustota roztoku etanolu a vody "ρ"
pre hmotnostný zlomok etanolu "w_E" a teplotu "t"

"w _E " - hmotnostný zlomok etanolu [%]	teplota merania "t" [°C]										
	15	16	17	18	19	20	21	22	23	24	25
20,0	970,666	970,270	969,866	969,454	969,034	968,606	968,171	967,727	967,276	966,817	966,350
20,1	970,543	970,145	969,739	969,325	968,903	968,473	968,035	967,590	967,137	966,676	966,207
20,2	970,420	970,020	969,612	969,196	968,772	968,340	967,900	967,453	966,997	966,535	966,064
20,3	970,297	969,894	969,484	969,066	968,640	968,206	967,765	967,315	966,858	966,393	965,921
20,4	970,173	969,769	969,357	968,937	968,508	968,072	967,629	967,177	966,718	966,252	965,778
20,5	970,050	969,643	969,229	968,807	968,376	967,939	967,493	967,040	966,579	966,110	965,634
20,6	969,926	969,517	969,101	968,676	968,244	967,804	967,357	966,901	966,439	965,968	965,491
20,7	969,802	969,391	968,972	968,546	968,112	967,670	967,220	966,763	966,298	965,826	965,347
20,8	969,677	969,265	968,844	968,416	967,979	967,535	967,084	966,625	966,158	965,684	965,202
20,9	969,553	969,138	968,715	968,285	967,846	967,400	966,947	966,486	966,017	965,541	965,058
21,0	969,428	969,011	968,586	968,154	967,713	967,265	966,810	966,347	965,876	965,398	964,913
21,1	969,303	968,884	968,457	968,022	967,580	967,130	966,673	966,208	965,735	965,255	964,768
21,2	969,178	968,757	968,328	967,891	967,447	966,995	966,535	966,068	965,594	965,112	964,623
21,3	969,053	968,629	968,198	967,759	967,313	966,859	966,397	965,928	965,452	964,969	964,478
21,4	968,927	968,502	968,068	967,627	967,179	966,723	966,259	965,789	965,310	964,825	964,332
21,5	968,801	968,374	967,938	967,495	967,045	966,587	966,121	965,648	965,168	964,681	964,187
21,6	968,675	968,245	967,808	967,363	966,910	966,450	965,983	965,508	965,026	964,537	964,041
21,7	968,549	968,117	967,677	967,230	966,775	966,313	965,844	965,367	964,883	964,392	963,894
21,8	968,422	967,988	967,546	967,097	966,640	966,176	965,705	965,226	964,741	964,248	963,748
21,9	968,295	967,859	967,415	966,964	966,505	966,039	965,566	965,085	964,597	964,103	963,601
22,0	968,168	967,730	967,284	966,830	966,369	965,901	965,426	964,944	964,454	963,957	963,454
22,1	968,041	967,600	967,152	966,696	966,234	965,764	965,286	964,802	964,310	963,812	963,306
22,2	967,913	967,470	967,020	966,562	966,098	965,626	965,146	964,660	964,167	963,666	963,159
22,3	967,785	967,340	966,888	966,428	965,961	965,487	965,006	964,518	964,022	963,520	963,011
22,4	967,657	967,209	966,755	966,293	965,825	965,349	964,865	964,375	963,878	963,374	962,863
22,5	967,528	967,079	966,622	966,158	965,688	965,210	964,724	964,232	963,733	963,227	962,714
22,6	967,399	966,948	966,489	966,023	965,550	965,070	964,583	964,089	963,588	963,080	962,565
22,7	967,270	966,816	966,356	965,888	965,413	964,931	964,442	963,946	963,443	962,933	962,416
22,8	967,140	966,685	966,222	965,752	965,275	964,791	964,300	963,802	963,297	962,786	962,267
22,9	967,011	966,553	966,088	965,616	965,137	964,651	964,158	963,658	963,151	962,638	962,117
23,0	966,881	966,421	965,954	965,479	964,998	964,510	964,016	963,514	963,005	962,490	961,968
23,1	966,750	966,288	965,819	965,343	964,860	964,370	963,873	963,369	962,859	962,341	961,817
23,2	966,619	966,155	965,684	965,206	964,721	964,229	963,730	963,224	962,712	962,193	961,667
23,3	966,488	966,022	965,549	965,068	964,581	964,087	963,587	963,079	962,565	962,044	961,516
23,4	966,357	965,888	965,413	964,931	964,442	963,946	963,443	962,934	962,417	961,895	961,365
23,5	966,225	965,755	965,277	964,793	964,302	963,804	963,299	962,788	962,270	961,745	961,214
23,6	966,093	965,620	965,141	964,654	964,161	963,661	963,155	962,642	962,122	961,595	961,062
23,7	965,961	965,486	965,004	964,516	964,021	963,519	963,010	962,495	961,973	961,445	960,910
23,8	965,828	965,351	964,867	964,377	963,880	963,376	962,865	962,348	961,825	961,294	960,758
23,9	965,695	965,216	964,730	964,237	963,738	963,233	962,720	962,201	961,676	961,144	960,605
24,0	965,561	965,080	964,592	964,098	963,597	963,089	962,575	962,054	961,526	960,992	960,452
24,1	965,427	964,944	964,454	963,958	963,455	962,945	962,429	961,906	961,377	960,841	960,299
24,2	965,293	964,808	964,316	963,817	963,312	962,801	962,283	961,758	961,227	960,689	960,145
24,3	965,159	964,671	964,177	963,677	963,170	962,656	962,136	961,609	961,077	960,537	959,991
24,4	965,024	964,534	964,038	963,536	963,027	962,511	961,989	961,461	960,926	960,385	959,837
24,5	964,889	964,397	963,899	963,394	962,883	962,366	961,842	961,312	960,775	960,232	959,683
24,6	964,753	964,259	963,759	963,253	962,740	962,220	961,694	961,162	960,624	960,079	959,528
24,7	964,617	964,121	963,619	963,110	962,595	962,074	961,546	961,012	960,472	959,925	959,372
24,8	964,481	963,983	963,479	962,968	962,451	961,928	961,398	960,862	960,320	959,772	959,217
24,9	964,344	963,844	963,338	962,825	962,306	961,781	961,250	960,712	960,168	959,617	959,061

Hustota roztoku etanolu a vody "ρ"
pre hmotnostný zlomok etanolu "w_E" a teplotu "t"

"w _E " - hmotnostný zlomok etanolu [%]	teplota merania "t" [°C]										
	15	16	17	18	19	20	21	22	23	24	25
25,0	964,207	963,705	963,196	962,682	962,161	961,634	961,101	960,561	960,015	959,463	958,905
25,1	964,069	963,565	963,055	962,538	962,016	961,486	960,951	960,410	959,862	959,308	958,748
25,2	963,931	963,425	962,913	962,394	961,870	961,339	960,801	960,258	959,709	959,153	958,591
25,3	963,793	963,285	962,771	962,250	961,723	961,190	960,651	960,106	959,555	958,998	958,434
25,4	963,654	963,144	962,628	962,105	961,577	961,042	960,501	959,954	959,401	958,842	958,276
25,5	963,515	963,003	962,485	961,960	961,430	960,893	960,350	959,801	959,246	958,685	958,119
25,6	963,376	962,862	962,341	961,815	961,282	960,744	960,199	959,648	959,092	958,529	957,960
25,7	963,236	962,720	962,197	961,669	961,134	960,594	960,048	959,495	958,937	958,372	957,802
25,8	963,096	962,577	962,053	961,523	960,986	960,444	959,896	959,341	958,781	958,215	957,643
25,9	962,955	962,435	961,908	961,376	960,838	960,294	959,743	959,187	958,625	958,057	957,483
26,0	962,814	962,291	961,763	961,229	960,689	960,143	959,591	959,033	958,469	957,899	957,324
26,1	962,672	962,148	961,618	961,082	960,540	959,992	959,438	958,878	958,312	957,741	957,163
26,2	962,530	962,004	961,472	960,934	960,390	959,840	959,284	958,723	958,155	957,582	957,003
26,3	962,388	961,860	961,326	960,786	960,240	959,688	959,130	958,567	957,998	957,423	956,842
26,4	962,245	961,715	961,179	960,637	960,089	959,536	958,976	958,411	957,840	957,264	956,681
26,5	962,102	961,570	961,032	960,488	959,938	959,383	958,822	958,255	957,682	957,104	956,520
26,6	961,959	961,424	960,884	960,339	959,787	959,230	958,667	958,098	957,524	956,944	956,358
26,7	961,815	961,278	960,736	960,189	959,635	959,076	958,512	957,941	957,365	956,783	956,196
26,8	961,670	961,132	960,588	960,039	959,483	958,922	958,356	957,784	957,206	956,622	956,033
26,9	961,525	960,985	960,439	959,888	959,331	958,768	958,200	957,626	957,046	956,461	955,870
27,0	961,380	960,838	960,290	959,737	959,178	958,613	958,043	957,468	956,886	956,299	955,707
27,1	961,234	960,690	960,141	959,585	959,025	958,458	957,886	957,309	956,726	956,137	955,543
27,2	961,088	960,542	959,991	959,434	958,871	958,303	957,729	957,150	956,565	955,975	955,379
27,3	960,942	960,394	959,840	959,281	958,717	958,147	957,571	956,990	956,404	955,812	955,215
27,4	960,795	960,245	959,689	959,129	958,562	957,991	957,413	956,831	956,243	955,649	955,050
27,5	960,647	960,095	959,538	958,976	958,407	957,834	957,255	956,671	956,081	955,485	954,885
27,6	960,499	959,946	959,386	958,822	958,252	957,677	957,096	956,510	955,918	955,321	954,719
27,7	960,351	959,795	959,234	958,668	958,096	957,519	956,937	956,349	955,756	955,157	954,553
27,8	960,202	959,645	959,082	958,514	957,940	957,361	956,777	956,188	955,593	954,992	954,387
27,9	960,053	959,494	958,929	958,359	957,784	957,203	956,617	956,026	955,429	954,827	954,220
28,0	959,903	959,342	958,776	958,204	957,627	957,044	956,457	955,864	955,266	954,662	954,053
28,1	959,753	959,190	958,622	958,048	957,469	956,885	956,296	955,701	955,101	954,496	953,886
28,2	959,603	959,038	958,468	957,892	957,312	956,726	956,135	955,538	954,937	954,330	953,718
28,3	959,452	958,885	958,313	957,736	957,153	956,566	955,973	955,375	954,772	954,163	953,550
28,4	959,300	958,732	958,158	957,579	956,995	956,405	955,811	955,211	954,606	953,996	953,381
28,5	959,148	958,578	958,002	957,422	956,836	956,245	955,648	955,047	954,441	953,829	953,212
28,6	958,996	958,424	957,846	957,264	956,676	956,083	955,486	954,883	954,275	953,661	953,043
28,7	958,843	958,269	957,690	957,106	956,516	955,922	955,322	954,718	954,108	953,493	952,873
28,8	958,690	958,114	957,533	956,947	956,356	955,760	955,159	954,552	953,941	953,325	952,703
28,9	958,536	957,959	957,376	956,788	956,195	955,597	954,995	954,387	953,774	953,156	952,533
29,0	958,382	957,803	957,218	956,629	956,034	955,435	954,830	954,221	953,606	952,987	952,362
29,1	958,228	957,646	957,060	956,469	955,873	955,271	954,665	954,054	953,438	952,817	952,191
29,2	958,073	957,490	956,901	956,308	955,711	955,108	954,500	953,887	953,270	952,647	952,019
29,3	957,917	957,332	956,742	956,148	955,548	954,944	954,334	953,720	953,101	952,477	951,848
29,4	957,761	957,175	956,583	955,987	955,385	954,779	954,168	953,552	952,931	952,306	951,675
29,5	957,605	957,016	956,423	955,825	955,222	954,614	954,002	953,384	952,762	952,135	951,503
29,6	957,448	956,858	956,263	955,663	955,058	954,449	953,835	953,216	952,592	951,963	951,329
29,7	957,291	956,699	956,102	955,501	954,894	954,283	953,667	953,047	952,421	951,791	951,156
29,8	957,133	956,539	955,941	955,338	954,730	954,117	953,500	952,877	952,250	951,619	950,982
29,9	956,975	956,379	955,779	955,174	954,565	953,951	953,332	952,708	952,079	951,446	950,808

Hustota roztoku etanolu a vody "ρ"
pre hmotnostný zlomok etanolu "w_E" a teplotu "t"

"w _E " - hmotnostný zlomok etanolu [%]	teplota merania "t" [°C]										
	15	16	17	18	19	20	21	22	23	24	25
30,0	956,816	956,219	955,617	955,011	954,400	953,784	953,163	952,538	951,908	951,273	950,633
30,1	956,657	956,058	955,455	954,847	954,234	953,616	952,994	952,367	951,736	951,099	950,458
30,2	956,498	955,897	955,292	954,682	954,068	953,448	952,825	952,196	951,563	950,925	950,283
30,3	956,338	955,735	955,128	954,517	953,901	953,280	952,655	952,025	951,390	950,751	950,107
30,4	956,177	955,573	954,965	954,352	953,734	953,112	952,485	951,853	951,217	950,577	949,931
30,5	956,016	955,411	954,800	954,186	953,566	952,943	952,314	951,681	951,044	950,402	949,755
30,6	955,855	955,247	954,636	954,019	953,398	952,773	952,143	951,509	950,870	950,226	949,578
30,7	955,693	955,084	954,471	953,853	953,230	952,603	951,972	951,336	950,695	950,050	949,401
30,8	955,531	954,920	954,305	953,685	953,061	952,433	951,800	951,163	950,521	949,874	949,223
30,9	955,368	954,756	954,139	953,518	952,892	952,262	951,628	950,989	950,345	949,698	949,045
31,0	955,205	954,591	953,973	953,350	952,723	952,091	951,455	950,815	950,170	949,521	948,867
31,1	955,041	954,426	953,806	953,181	952,553	951,920	951,282	950,640	949,994	949,343	948,688
31,2	954,877	954,260	953,638	953,012	952,382	951,748	951,109	950,465	949,818	949,166	948,509
31,3	954,712	954,094	953,471	952,843	952,211	951,575	950,935	950,290	949,641	948,988	948,330
31,4	954,547	953,927	953,302	952,673	952,040	951,403	950,761	950,115	949,464	948,809	948,150
31,5	954,382	953,760	953,134	952,503	951,869	951,230	950,586	949,938	949,286	948,630	947,970
31,6	954,216	953,592	952,965	952,333	951,696	951,056	950,411	949,762	949,109	948,451	947,789
31,7	954,050	953,425	952,795	952,162	951,524	950,882	950,236	949,585	948,930	948,271	947,608
31,8	953,883	953,256	952,625	951,990	951,351	950,708	950,060	949,408	948,752	948,091	947,427
31,9	953,716	953,087	952,455	951,818	951,178	950,533	949,884	949,230	948,573	947,911	947,245
32,0	953,548	952,918	952,284	951,646	951,004	950,358	949,707	949,052	948,393	947,730	947,063
32,1	953,380	952,748	952,113	951,473	950,830	950,182	949,530	948,874	948,214	947,549	946,881
32,2	953,211	952,578	951,941	951,300	950,655	950,006	949,353	948,695	948,034	947,368	946,698
32,3	953,042	952,408	951,769	951,127	950,480	949,830	949,175	948,516	947,853	947,186	946,515
32,4	952,872	952,237	951,597	950,953	950,305	949,653	948,997	948,336	947,672	947,004	946,331
32,5	952,703	952,065	951,424	950,778	950,129	949,476	948,818	948,156	947,491	946,821	946,147
32,6	952,532	951,893	951,251	950,604	949,953	949,298	948,639	947,976	947,309	946,638	945,963
32,7	952,361	951,721	951,077	950,428	949,776	949,120	948,460	947,795	947,127	946,455	945,779
32,8	952,190	951,548	950,903	950,253	949,599	948,942	948,280	947,614	946,945	946,271	945,594
32,9	952,018	951,375	950,728	950,077	949,422	948,763	948,100	947,433	946,762	946,087	945,408
33,0	951,846	951,201	950,553	949,900	949,244	948,584	947,919	947,251	946,579	945,903	945,223
33,1	951,674	951,027	950,377	949,724	949,066	948,404	947,738	947,069	946,395	945,718	945,037
33,2	951,501	950,853	950,202	949,546	948,887	948,224	947,557	946,886	946,211	945,533	944,850
33,3	951,327	950,678	950,025	949,369	948,708	948,044	947,375	946,703	946,027	945,347	944,664
33,4	951,153	950,503	949,849	949,190	948,529	947,863	947,193	946,520	945,843	945,161	944,477
33,5	950,979	950,327	949,671	949,012	948,349	947,682	947,011	946,336	945,658	944,975	944,289
33,6	950,804	950,151	949,494	948,833	948,168	947,500	946,828	946,152	945,472	944,789	944,101
33,7	950,629	949,974	949,316	948,654	947,988	947,318	946,645	945,967	945,286	944,602	943,913
33,8	950,453	949,797	949,137	948,474	947,807	947,136	946,461	945,783	945,100	944,414	943,725
33,9	950,277	949,620	948,959	948,294	947,625	946,953	946,277	945,597	944,914	944,227	943,536
34,0	950,101	949,442	948,780	948,113	947,444	946,770	946,093	945,412	944,727	944,039	943,347
34,1	949,924	949,264	948,600	947,932	947,261	946,587	945,908	945,226	944,540	943,850	943,157
34,2	949,746	949,085	948,420	947,751	947,079	946,403	945,723	945,040	944,352	943,662	942,967
34,3	949,569	948,906	948,239	947,569	946,896	946,218	945,537	944,853	944,165	943,473	942,777
34,4	949,390	948,726	948,059	947,387	946,712	946,034	945,352	944,666	943,976	943,283	942,587
34,5	949,212	948,546	947,877	947,205	946,529	945,849	945,165	944,478	943,788	943,094	942,396
34,6	949,033	948,366	947,696	947,022	946,345	945,663	944,979	944,291	943,599	942,903	942,205
34,7	948,853	948,185	947,514	946,839	946,160	945,478	944,792	944,102	943,410	942,713	942,013
34,8	948,674	948,004	947,331	946,655	945,975	945,292	944,605	943,914	943,220	942,522	941,821
34,9	948,493	947,823	947,149	946,471	945,790	945,105	944,417	943,725	943,030	942,331	941,629

Hustota roztoku etanolu a vody "ρ"
pre hmotnostný zlomok etanolu "w_E" a teplotu "t"

"w _E " - hmotnostný zlomok etanolu [%]	teplota merania "t" [°C]										
	15	16	17	18	19	20	21	22	23	24	25
35,0	948,313	947,641	946,965	946,287	945,604	944,918	944,229	943,536	942,840	942,140	941,436
35,1	948,131	947,458	946,782	946,102	945,418	944,731	944,040	943,346	942,649	941,948	941,244
35,2	947,950	947,276	946,598	945,916	945,232	944,543	943,852	943,157	942,458	941,756	941,050
35,3	947,768	947,092	946,413	945,731	945,045	944,356	943,663	942,966	942,267	941,563	940,857
35,4	947,586	946,909	946,229	945,545	944,858	944,167	943,473	942,776	942,075	941,371	940,663
35,5	947,403	946,725	946,043	945,359	944,670	943,979	943,283	942,585	941,883	941,177	940,469
35,6	947,220	946,541	945,858	945,172	944,482	943,789	943,093	942,393	941,690	940,984	940,274
35,7	947,036	946,356	945,672	944,985	944,294	943,600	942,903	942,202	941,498	940,790	940,079
35,8	946,853	946,171	945,486	944,797	944,105	943,410	942,712	942,010	941,305	940,596	939,884
35,9	946,668	945,985	945,299	944,609	943,917	943,220	942,521	941,818	941,111	940,402	939,689
36,0	946,484	945,799	945,112	944,421	943,727	943,030	942,329	941,625	940,918	940,207	939,493
36,1	946,298	945,613	944,925	944,233	943,537	942,839	942,137	941,432	940,724	940,012	939,297
36,2	946,113	945,426	944,737	944,044	943,347	942,648	941,945	941,239	940,529	939,817	939,101
36,3	945,927	945,239	944,549	943,854	943,157	942,456	941,752	941,045	940,335	939,621	938,904
36,4	945,741	945,052	944,360	943,665	942,966	942,264	941,559	940,851	940,140	939,425	938,707
36,5	945,554	944,864	944,171	943,475	942,775	942,072	941,366	940,657	939,944	939,228	938,510
36,6	945,367	944,676	943,982	943,284	942,584	941,880	941,173	940,462	939,749	939,032	938,312
36,7	945,180	944,488	943,792	943,094	942,392	941,687	940,979	940,267	939,553	938,835	938,114
36,8	944,992	944,299	943,602	942,903	942,200	941,494	940,784	940,072	939,356	938,638	937,916
36,9	944,804	944,109	943,412	942,711	942,007	941,300	940,590	939,876	939,160	938,440	937,717
37,0	944,615	943,920	943,221	942,519	941,814	941,106	940,395	939,680	938,963	938,242	937,518
37,1	944,426	943,730	943,030	942,327	941,621	940,912	940,200	939,484	938,766	938,044	937,319
37,2	944,237	943,539	942,839	942,135	941,428	940,717	940,004	939,288	938,568	937,845	937,120
37,3	944,047	943,349	942,647	941,942	941,234	940,523	939,808	939,091	938,370	937,647	936,920
37,4	943,857	943,158	942,455	941,749	941,040	940,327	939,612	938,894	938,172	937,448	936,720
37,5	943,667	942,966	942,262	941,555	940,845	940,132	939,416	938,696	937,974	937,248	936,520
37,6	943,476	942,774	942,069	941,361	940,650	939,936	939,219	938,498	937,775	937,049	936,319
37,7	943,285	942,582	941,876	941,167	940,455	939,740	939,022	938,300	937,576	936,849	936,118
37,8	943,094	942,390	941,683	940,973	940,260	939,543	938,824	938,102	937,377	936,648	935,917
37,9	942,902	942,197	941,489	940,778	940,064	939,347	938,626	937,903	937,177	936,448	935,716
38,0	942,710	942,004	941,295	940,583	939,868	939,149	938,428	937,704	936,977	936,247	935,514
38,1	942,517	941,810	941,100	940,387	939,671	938,952	938,230	937,505	936,777	936,046	935,312
38,2	942,324	941,616	940,905	940,191	939,474	938,754	938,031	937,305	936,576	935,844	935,110
38,3	942,131	941,422	940,710	939,995	939,277	938,556	937,832	937,105	936,376	935,643	934,907
38,4	941,937	941,228	940,515	939,799	939,080	938,358	937,633	936,905	936,174	935,441	934,704
38,5	941,744	941,033	940,319	939,602	938,882	938,159	937,433	936,705	935,973	935,239	934,501
38,6	941,549	940,837	940,123	939,405	938,684	937,960	937,234	936,504	935,771	935,036	934,298
38,7	941,355	940,642	939,926	939,207	938,486	937,761	937,033	936,303	935,569	934,833	934,094
38,8	941,160	940,446	939,729	939,010	938,287	937,561	936,833	936,102	935,367	934,630	933,890
38,9	940,965	940,250	939,532	938,812	938,088	937,362	936,632	935,900	935,165	934,427	933,686
39,0	940,769	940,053	939,335	938,613	937,889	937,161	936,431	935,698	934,962	934,223	933,482
39,1	940,573	939,856	939,137	938,414	937,689	936,961	936,230	935,496	934,759	934,019	933,277
39,2	940,377	939,659	938,939	938,215	937,489	936,760	936,028	935,293	934,556	933,815	933,072
39,3	940,180	939,462	938,740	938,016	937,289	936,559	935,826	935,091	934,352	933,611	932,867
39,4	939,983	939,264	938,542	937,817	937,089	936,358	935,624	934,888	934,148	933,406	932,661
39,5	939,786	939,066	938,343	937,617	936,888	936,156	935,422	934,684	933,944	933,201	932,456
39,6	939,589	938,867	938,143	937,417	936,687	935,954	935,219	934,481	933,740	932,996	932,250
39,7	939,391	938,669	937,944	937,216	936,486	935,752	935,016	934,277	933,535	932,791	932,043
39,8	939,193	938,470	937,744	937,015	936,284	935,550	934,813	934,073	933,330	932,585	931,837
39,9	938,994	938,270	937,544	936,814	936,082	935,347	934,609	933,868	933,125	932,379	931,630

Hustota roztoku etanolu a vody "ρ"
pre hmotnostný zlomok etanolu "w_E" a teplotu "t"

"w _E " - hmotnostný zlomok etanolu [%]	teplota merania "t" [°C]										
	15	16	17	18	19	20	21	22	23	24	25
40,0	938,795	938,071	937,343	936,613	935,880	935,144	934,405	933,664	932,920	932,173	931,423
40,1	938,596	937,871	937,142	936,411	935,677	934,941	934,201	933,459	932,714	931,966	931,216
40,2	938,397	937,670	936,941	936,209	935,475	934,737	933,997	933,254	932,508	931,760	931,009
40,3	938,197	937,470	936,740	936,007	935,272	934,533	933,792	933,048	932,302	931,553	930,801
40,4	937,997	937,269	936,538	935,805	935,068	934,329	933,587	932,843	932,095	931,346	930,593
40,5	937,797	937,068	936,336	935,602	934,865	934,125	933,382	932,637	931,889	931,138	930,385
40,6	937,596	936,867	936,134	935,399	934,661	933,920	933,177	932,431	931,682	930,930	930,176
40,7	937,395	936,665	935,932	935,196	934,457	933,715	932,971	932,224	931,475	930,723	929,968
40,8	937,194	936,463	935,729	934,992	934,253	933,510	932,765	932,018	931,267	930,514	929,759
40,9	936,993	936,261	935,526	934,788	934,048	933,305	932,559	931,811	931,060	930,306	929,550
41,0	936,791	936,058	935,322	934,584	933,843	933,099	932,353	931,604	930,852	930,097	929,340
41,1	936,589	935,855	935,119	934,380	933,638	932,893	932,146	931,396	930,644	929,889	929,131
41,2	936,387	935,652	934,915	934,175	933,433	932,687	931,939	931,189	930,435	929,680	928,921
41,3	936,184	935,449	934,711	933,970	933,227	932,481	931,732	930,981	930,227	929,470	928,711
41,4	935,981	935,245	934,506	933,765	933,021	932,274	931,525	930,773	930,018	929,261	928,501
41,5	935,778	935,041	934,302	933,560	932,815	932,067	931,317	930,564	929,809	929,051	928,291
41,6	935,574	934,837	934,097	933,354	932,608	931,860	931,109	930,356	929,600	928,841	928,080
41,7	935,371	934,633	933,892	933,148	932,402	931,653	930,901	930,147	929,390	928,631	927,869
41,8	935,167	934,428	933,686	932,942	932,195	931,445	930,693	929,938	929,180	928,420	927,658
41,9	934,963	934,223	933,480	932,735	931,988	931,237	930,484	929,729	928,971	928,210	927,447
42,0	934,758	934,018	933,275	932,529	931,780	931,029	930,276	929,519	928,760	927,999	927,235
42,1	934,553	933,812	933,068	932,322	931,573	930,821	930,067	929,310	928,550	927,788	927,023
42,2	934,348	933,606	932,862	932,115	931,365	930,612	929,857	929,100	928,339	927,577	926,812
42,3	934,143	933,400	932,655	931,907	931,157	930,404	929,648	928,889	928,129	927,365	926,599
42,4	933,937	933,194	932,448	931,700	930,948	930,195	929,438	928,679	927,918	927,154	926,387
42,5	933,732	932,988	932,241	931,492	930,740	929,985	929,228	928,469	927,706	926,942	926,175
42,6	933,526	932,781	932,034	931,284	930,531	929,776	929,018	928,258	927,495	926,730	925,962
42,7	933,319	932,574	931,826	931,075	930,322	929,566	928,808	928,047	927,283	926,517	925,749
42,8	933,113	932,367	931,618	930,867	930,113	929,356	928,597	927,836	927,071	926,305	925,536
42,9	932,906	932,159	931,410	930,658	929,903	929,146	928,386	927,624	926,859	926,092	925,323
43,0	932,699	931,951	931,201	930,449	929,694	928,936	928,175	927,413	926,647	925,879	925,109
43,1	932,492	931,743	930,993	930,240	929,484	928,725	927,964	927,201	926,435	925,666	924,895
43,2	932,284	931,535	930,784	930,030	929,274	928,514	927,753	926,989	926,222	925,453	924,681
43,3	932,076	931,327	930,575	929,820	929,063	928,304	927,541	926,776	926,009	925,240	924,467
43,4	931,868	931,118	930,366	929,610	928,853	928,092	927,329	926,564	925,796	925,026	924,253
43,5	931,660	930,909	930,156	929,400	928,642	927,881	927,117	926,351	925,583	924,812	924,039
43,6	931,452	930,700	929,946	929,190	928,431	927,669	926,905	926,139	925,369	924,598	923,824
43,7	931,243	930,491	929,736	928,979	928,220	927,458	926,693	925,926	925,156	924,384	923,609
43,8	931,034	930,281	929,526	928,769	928,008	927,245	926,480	925,712	924,942	924,169	923,394
43,9	930,825	930,072	929,316	928,558	927,797	927,033	926,267	925,499	924,728	923,955	923,179
44,0	930,615	929,862	929,105	928,346	927,585	926,821	926,054	925,285	924,514	923,740	922,964
44,1	930,406	929,651	928,894	928,135	927,373	926,608	925,841	925,072	924,300	923,525	922,748
44,2	930,196	929,441	928,683	927,923	927,161	926,395	925,628	924,858	924,085	923,310	922,533
44,3	929,986	929,230	928,472	927,711	926,948	926,182	925,414	924,643	923,870	923,095	922,317
44,4	929,776	929,019	928,261	927,499	926,736	925,969	925,200	924,429	923,655	922,879	922,101
44,5	929,565	928,808	928,049	927,287	926,523	925,756	924,986	924,215	923,440	922,664	921,884
44,6	929,355	928,597	927,837	927,075	926,310	925,542	924,772	924,000	923,225	922,448	921,668
44,7	929,144	928,386	927,625	926,862	926,097	925,329	924,558	923,785	923,010	922,232	921,452
44,8	928,933	928,174	927,413	926,649	925,883	925,115	924,343	923,570	922,794	922,016	921,235
44,9	928,721	927,962	927,201	926,436	925,670	924,900	924,129	923,355	922,578	921,799	921,018