

## Density and Concentration Calculator for Mixtures of Isopropyl Alcohol and Water

This calculator calculates for Concentration or Density values that are between those given in the tables below by a process called interpolation. The Temperature is a required input. Input any one value of Density, Concentration in % Volume, or Concentration in % Weight of Isopropyl Alcohol in water to calculate for the other two values. All inputs must be within the range of the table. The table below on the left gives the Density (kg/L) and the corresponding concentration in % Weight of Isopropyl Alcohol ((CH<sub>3</sub>)<sub>2</sub>CHOH) in water at different temperatures in degrees centigrade (°C). Isopropyl Alcohol is also known as Isopropanol. The table was taken from "Perry's Chemical Engineers' Handbook" by Robert H. Perry, Don Green, Sixth Edition. The table below on the right gives the Density (kg/L) and the corresponding concentration in % Volume and was derived from the left table. [Click here for more Density-Concentration Calculators.](#)

Enter Temperature	Enter Any One Value to Calculate for the Other Two Values		
Temperature	Density	Concentration	
°C	kg/L	% Weight	% Volume
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="button" value="Calculate"/>	<input type="button" value="Reset"/>	<input type="button" value="Examples and More Info"/>	

### Related Calculators

[The Complete Chemical Mixing Calculator for Isopropyl Alcohol and Water Mixtures](#)

[Calculator for Making Isopropyl Alcohol in water Solution](#)

[Calculator for Adjusting Concentration of Isopropyl Alcohol in water Solution](#)

[Calculator for Combining Isopropyl Alcohol in water Solutions of Different Concentration](#)

#### Isopropyl Alcohol in Water (Using % Weight Concentration)

	Temperature in degrees Centigrade (°C)			
	0°C	15°C	20°C	30°C
Concentration (% Weight)	Density (kg/L)			
0	0.99990	0.99913	0.99820	0.99570
1	0.99800	0.99720	0.99620	0.99390

#### Isopropyl Alcohol in Water (Using % Volume Concentration)

	Temperature in degrees Centigrade (°C)			
	0°C	15°C	20°C	30°C
Concentration (% Volume)	Density (kg/L)			
0	0.99990	0.99913	0.99820	0.99570
1	0.99837	0.99760	0.99662	0.99429

2	0.99620	0.99540	0.99440	0.99210
3	0.99460	0.99360	0.99260	0.99040
4	0.99300	0.99200	0.99090	0.98870
5	0.99160	0.99040	0.98930	0.98710
6	0.99020	0.98900	0.98770	0.98550
7	0.98900	0.98750	0.98620	0.98390
8	0.98780	0.98620	0.98470	0.98240
9	0.98660	0.98490	0.98330	0.98090
10	0.98560	0.98362	0.98200	0.97940
11	0.98460	0.98240	0.98080	0.97780
12	0.98380	0.98120	0.97970	0.97640
13	0.98290	0.98000	0.97860	0.97500
14	0.98210	0.97880	0.97760	0.97350
15	0.98140	0.97770	0.97650	0.97200
16	0.98060	0.97650	0.97540	0.97050
17	0.97990	0.97530	0.97430	0.96900
18	0.97920	0.97410	0.97310	0.96750
19	0.97840	0.97280	0.97170	0.96580
20	0.97770	0.97158	0.97030	0.96420
21	0.97680	0.97030	0.96880	0.96240
22	0.97590	0.96890	0.96690	0.96060
23	0.97490	0.96740	0.96510	0.95870
24	0.97390	0.96590	0.96340	0.95690
25	0.97270	0.96420	0.96150	0.95490
26	0.97140	0.96240	0.95970	0.95290
27	0.96990	0.96050	0.95770	0.95090
28	0.96840	0.95860	0.95580	0.94880
29	0.96690	0.95680	0.95400	0.94670
30	0.96520	0.95493	0.95200	0.94460
31	0.96340	0.95300	0.95000	0.94260
32	0.96150	0.95100	0.94810	0.94050
33	0.95960	0.94890	0.94600	0.93830
34	0.95770	0.94680	0.94400	0.93610
35	0.95570	0.94460	0.94190	0.93380

2	0.99690	0.99615	0.99516	0.99288
3	0.99553	0.99472	0.99373	0.99150
4	0.99424	0.99332	0.99232	0.99016
5	0.99295	0.99204	0.99096	0.98882
6	0.99181	0.99075	0.98968	0.98755
7	0.99067	0.98958	0.98840	0.98628
8	0.98962	0.98842	0.98715	0.98500
9	0.98864	0.98725	0.98595	0.98374
10	0.98766	0.98620	0.98474	0.98254
11	0.98668	0.98515	0.98360	0.98134
12	0.98584	0.98410	0.98253	0.98013
13	0.98502	0.98309	0.98152	0.97889
14	0.98428	0.98210	0.98056	0.97762
15	0.98360	0.98112	0.97967	0.97649
16	0.98286	0.98014	0.97878	0.97536
17	0.98220	0.97916	0.97795	0.97416
18	0.98161	0.97823	0.97708	0.97294
19	0.98098	0.97729	0.97618	0.97171
20	0.98035	0.97630	0.97528	0.97048
21	0.97977	0.97531	0.97438	0.96925
22	0.97919	0.97432	0.97340	0.96801
23	0.97853	0.97326	0.97229	0.96667
24	0.97793	0.97221	0.97113	0.96529
25	0.97724	0.97118	0.96993	0.96393
26	0.97649	0.97009	0.96865	0.96242
27	0.97572	0.96891	0.96704	0.96090
28	0.97488	0.96765	0.96550	0.95931
29	0.97403	0.96638	0.96403	0.95775
30	0.97304	0.96499	0.96249	0.95614
31	0.97196	0.96350	0.96089	0.95442
32	0.97076	0.96192	0.95930	0.95270
33	0.96947	0.96027	0.95757	0.95097
34	0.96817	0.95862	0.95592	0.94915
35	0.96687	0.95705	0.95435	0.94731

36	0.95360	0.94240	0.93990	0.93150
37	0.95140	0.94010	0.93770	0.92920
38	0.94930	0.93790	0.93550	0.92690
39	0.94720	0.93560	0.93330	0.92460
40	0.94500	0.93333	0.93100	0.92240
41	0.94280	0.93110	0.92870	0.92010
42	0.94060	0.92880	0.92640	0.91770
43	0.93840	0.92660	0.92390	0.91540
44	0.93610	0.92430	0.92150	0.91300
45	0.93380	0.92200	0.91910	0.91060
46	0.93150	0.91970	0.91650	0.90820
47	0.92920	0.91740	0.91410	0.90590
48	0.92700	0.91500	0.91170	0.90360
49	0.92470	0.91270	0.90930	0.90130
50	0.92240	0.91043	0.90690	0.89900
51	0.92010	0.90810	0.90440	0.89660
52	0.91780	0.90580	0.90200	0.89430
53	0.91550	0.90350	0.89960	0.89190
54	0.91320	0.90110	0.89710	0.88950
55	0.91090	0.89880	0.89460	0.88710
56	0.90860	0.89640	0.89210	0.88470
57	0.90630	0.89400	0.88960	0.88230
58	0.90400	0.89170	0.88740	0.88000
59	0.90170	0.88930	0.88500	0.87770
60	0.89940	0.88690	0.88250	0.87520
61	0.89700	0.88450	0.88000	0.87280
62	0.89470	0.88210	0.87760	0.87040
63	0.89240	0.87980	0.87510	0.86800
64	0.89010	0.87750	0.87270	0.86560
65	0.88780	0.87520	0.87020	0.86310
66	0.88540	0.87280	0.86790	0.86070
67	0.88310	0.87050	0.86560	0.85830
68	0.88070	0.86820	0.86320	0.85590
69	0.87840	0.86580	0.86090	0.85350

36	0.96538	0.95543	0.95264	0.94547
37	0.96381	0.95374	0.95088	0.94367
38	0.96215	0.95200	0.94916	0.94187
39	0.96045	0.95018	0.94740	0.93998
40	0.95876	0.94830	0.94555	0.93800
41	0.95702	0.94639	0.94375	0.93602
42	0.95518	0.94439	0.94185	0.93393
43	0.95325	0.94238	0.94005	0.93183
44	0.95123	0.94027	0.93805	0.92972
45	0.94930	0.93823	0.93603	0.92760
46	0.94736	0.93611	0.93400	0.92547
47	0.94532	0.93399	0.93189	0.92339
48	0.94326	0.93189	0.92974	0.92129
49	0.94119	0.92974	0.92757	0.91908
50	0.93911	0.92762	0.92530	0.91684
51	0.93694	0.92548	0.92294	0.91462
52	0.93473	0.92328	0.92063	0.91231
53	0.93251	0.92106	0.91823	0.90999
54	0.93028	0.91883	0.91575	0.90768
55	0.92809	0.91655	0.91340	0.90544
56	0.92589	0.91422	0.91103	0.90320
57	0.92362	0.91197	0.90866	0.90093
58	0.92133	0.90970	0.90623	0.89864
59	0.91904	0.90738	0.90374	0.89626
60	0.91673	0.90508	0.90132	0.89394
61	0.91441	0.90272	0.89885	0.89150
62	0.91207	0.90031	0.89627	0.88905
63	0.90972	0.89792	0.89368	0.88659
64	0.90736	0.89543	0.89107	0.88411
65	0.90498	0.89299	0.88861	0.88164
66	0.90258	0.89054	0.88622	0.87925
67	0.90017	0.88800	0.88362	0.87676
68	0.89766	0.88545	0.88093	0.87413
69	0.89519	0.88288	0.87832	0.87157

70	0.87610	0.86346	0.85840	0.85110
71	0.87380	0.86110	0.85600	0.84870
72	0.87140	0.85880	0.85370	0.84640
73	0.86910	0.85640	0.85130	0.84400
74	0.86680	0.85410	0.84890	0.84160
75	0.86440	0.85170	0.84640	0.83920
76	0.86210	0.84930	0.84390	0.83680
77	0.85980	0.84700	0.84150	0.83440
78	0.85750	0.84460	0.83910	0.83210
79	0.85510	0.84220	0.83660	0.82970
80	0.85280	0.83979	0.83420	0.82730
81	0.85030	0.83740	0.83170	0.82480
82	0.84790	0.83500	0.82920	0.82240
83	0.84560	0.83260	0.82680	0.82000
84	0.84320	0.83020	0.82430	0.81750
85	0.84080	0.82780	0.82190	0.81510
86	0.83840	0.82540	0.81940	0.81270
87	0.83600	0.82290	0.81690	0.81020
88	0.83360	0.82050	0.81450	0.80780
89	0.83110	0.81800	0.81200	0.80530
90	0.82870	0.81553	0.80960	0.80290
91	0.82620	0.81300	0.80720	0.80040
92	0.82370	0.81040	0.80470	0.79790
93	0.82120	0.80790	0.80230	0.79540
94	0.81860	0.80520	0.79980	0.79290
95	0.81600	0.80260	0.79730	0.79040
96	0.81330	0.79990	0.79490	0.78780
97	0.81060	0.79720	0.79250	0.78520
98	0.80780	0.79450	0.79010	0.78260
99	0.80480	0.79180	0.78770	0.77990
100	0.80160	0.78913	0.78540	0.77700

70	0.89273	0.88039	0.87563	0.86898
71	0.89026	0.87791	0.87300	0.86638
72	0.88777	0.87542	0.87025	0.86366
73	0.88515	0.87279	0.86773	0.86099
74	0.88260	0.87027	0.86517	0.85833
75	0.87996	0.86770	0.86252	0.85564
76	0.87740	0.86502	0.85985	0.85294
77	0.87482	0.86237	0.85705	0.85021
78	0.87214	0.85973	0.85438	0.84753
79	0.86949	0.85702	0.85165	0.84482
80	0.86685	0.85434	0.84885	0.84203
81	0.86407	0.85155	0.84588	0.83921
82	0.86139	0.84875	0.84293	0.83637
83	0.85869	0.84599	0.84006	0.83355
84	0.85589	0.84310	0.83706	0.83074
85	0.85310	0.84019	0.83411	0.82782
86	0.85007	0.83727	0.83100	0.82475
87	0.84716	0.83430	0.82792	0.82178
88	0.84427	0.83132	0.82481	0.81870
89	0.84127	0.82830	0.82174	0.81561
90	0.83824	0.82525	0.81850	0.81254
91	0.83518	0.82204	0.81531	0.80932
92	0.83200	0.81884	0.81205	0.80610
93	0.82883	0.81557	0.80888	0.80290
94	0.82550	0.81212	0.80559	0.79952
95	0.82213	0.80862	0.80230	0.79610
96	0.81858	0.80488	0.79883	0.79263
97	0.81486	0.80112	0.79544	0.78905
98	0.81095	0.79717	0.79208	0.78529
99	0.80666	0.79315	0.78869	0.78140
100	0.80160	0.78913	0.78540	0.77700

Related Calculators

[The Complete Sodium Hydroxide Density-Concentration Table Calculator](#)  
[Potassium Hydroxide Concentration Calculator](#)  
[The Complete Sodium Chloride Density-Concentration Table Calculator](#)  
[The Complete Aqueous Magnesium Sulfate Solutions Density-Concentration Calculator](#)  
[The Complete Aqueous Nitric Acid Solutions Density-Concentration Calculator](#)  
[The Complete Aqueous Hydrochloric Acid Solutions Density-Concentration Calculator](#)  
[The Complete Aqueous Phosphoric Acid Solutions Density-Concentration Calculator](#)  
[The Complete Aqueous Formic Acid Solutions Density-Concentration Calculator](#)  
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[The Complete Aqueous Ammonium Nitrate Solutions Density-Concentration Calculator](#)  
[Density and Concentration Calculator for Mixtures of Ethanol and Water at 20°C](#)  
[Density and Concentration Calculator for Mixtures of Methanol and Water](#)