

**Table 4.** List of alcohols in human body.

CAS-number	Compound name	Formula	Faeces	Urine	Breath	Skin	Milk	Blood	Saliva	Semen
67-56-1	methanol	CH <sub>4</sub> O	[9, 222, 247]	[197, 252]	[6, 55, 134, 268, 275, 303, 307, 309, 314, 368, 370, 378, 385, 394, 406]		[155]	[122, 123, 134, 141]	[115]	
64-17-5	ethanol / ethyl alcohol	C <sub>2</sub> H <sub>6</sub> O	[9, 216, 223, 247, 248]	[194, 196, 197, 202, 255, 256, 258]	[6, 56, 57, 268, 273, 274, 275, 277, 278, 284, 288, 296, 301, 311, 318, 321, 329, 330, 338, 340, 345, 347, 353, 357, 358, 55, 364, 368, 370, 372, 378, 381, 385, 387, 393, 394, 404, 406, 407]	[187, 410]	[163]	[122, 123, 131, 141]	[110, 113, 115, 116, 418, 423]	[241]
71-23-8	1-propanol / propyl alcohol	C <sub>3</sub> H <sub>8</sub> O	[9, 216, 247, 248]	[194, 198, 256, 258]	[6, 55, 57, 259, 307, 309, 311, 321, 329, 347, 361,			[122, 123, 134, 141]	[110, 111, 113, 115, 116]	[241]

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					378, 404, 406]					
67-63-0	2-propanol / isopropyl alcohol / isopropanol	C3H8O	[9, 222, 247]	[196, 258]	[6, 55, 56, 259, 269, 273, 275, 278, 284, 301, 311, 324, 329, 330, 338, 345, 363, 367, 369, 371, 378, 381, 387, 389, 404, 406]	[410]	[155, 156]	[122, 123, 125, 126, 141, 416]	[110, 111, 115, 116]	
71-36-3	1-butanol	C4H10O	[9, 216, 222, 247, 248]	[193, 194, 196, 198, 255, 256, 258]	[56, 277, 307, 309, 319, 329, 332, 364, 367, 387, 406, 408]	[176, 183]	[155, 163]	[122, 123, 126, 141, 416]	[110, 111, 115, 116]	[241]
78-92-2	2-butanol	C4H10O	[9, 216, 247]		[262, 408]	[178]		[141]	[110, 115, 419]	[241]
71-41-0	pentanol / 1-pentanol	C5H12O	[9, 216, 222, 248]	[196, 198, 256, 258]	[307, 309, 361, 364, 394, 408]	[183]	[155, 156, 163]	[122, 124, 127]	[110, 111]	[241]
6032-29-7	2-pentanol	C5H12O	[9, 216, 222]		[277]				[111]	
584-02-1	3-pentanol	C5H12O	[9]						[111]	[241]

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111-27-3	1-hexanol	C6H14O	[9, 216, 222]	[193, 196, 198]	[320, 359, 364]	[183]	[163]	[124]	[110, 111, 116]	[241]
626-93-7	2-hexanol	C6H14O		[196]		[176]			[113]	
623-37-0	3-hexanol	C6H14O				[176]			[421]	
111-70-6	1-heptanol	C7H16O	[9, 216]	[196, 198]			[163]		[111, 116]	
543-49-7	2-heptanol	C7H16O	[216]							
111-87-5	1-octanol	C8H18O	[9, 216, 222]	[193, 196, 202, 250, 253, 256, 258]		[183]	[163]		[116]	
123-96-6	2-octanol	C8H18O	[216]	[202]	[364]					
143-08-8	1-nonanol	C9H20O	[9]		[57, 396]	[409]			[111]	
628-99-9	2-nonanol	C9H20O	[9]						[111]	
112-30-1	1-decanol	C10H22O	[9]	[196, 253]	[57]	[183, 409]			[111]	
1120-06-5	2-decanol	C10H22O				[178]				
1653-30-1	2-undecanol	C11H24O	[9]	[194]						
623-93-8	5-nonanol	C9H20O							[422]	
30207-98-8	undecanol	C11H24O				[414]				
112-53-8	1-dodecanol / dodecanol	C12H26O	[9]	[253]		[186, 189, 409, 414]	[163]		[110, 111, 116, 418, 421]	
87549-32-4	dodecenol	C12H26O				[178]				
112-70-9	1-tridecanol	C13H28O	[9, 223]	[193]	[388]	[178, 182, 414]				
112-72-1	1-tetradecanol / tetradecanol	C14H30O				[178, 179, 180]			[418]	
629-76-5	pentadecanol	C15H32O				[182]				
36653-82-4	1-hexadecanol	C16H34O	[9]			[179, 180, 182, 183, 409]				
14852-31-4	2-hexadecanol	C16H34O				[178]				
16813-18-6	2-heptadecanol	C17H36O				[178]				

112-92-5	octadecanol / n-octadecanol / 1-octadecanol	C18H38O		[253]		[183]			[419]
629-96-9	eicosanol / n-eicosanol	C20H42O							[419]
<i>branched</i>									
75-65-0	2-methyl-2-propanol / tert-Butyl alcohol	C4H10O			[6, 369, 380]		[155]	[123, 126]	[241]
78-83-1	2-methylpropanol / i-butanol / 2-methyl-1-propanol / Isobutyl alcohol	C4H10O	[9, 216, 223, 248]	[196, 198, 256, 258]	[324, 353, 408]	[191]		[123, 125]	[110, 111] [241]
75-84-3	1-Propanol, 2,2-dimethyl-	C5H12O			[369]				
137-32-6	2-methyl-1-butanol	C5H12O	[9, 222, 248]	[256, 258]				[127]	[111] [241]
75-85-4	2-methyl-2-butanol / Amylene hydrate	C5H12O		[198]	[367]				
123-51-3	3-methyl-1-butanol / Isoamyl alcohol / isopentanol	C5H12O	[9, 216]	[196, 198, 256, 257, 258]	[344]			[125, 141]	[110, 111] [241]
598-75-4	3-methyl-2-butanol	C5H12O	[216]	[258]					111,
97-95-0	2-ethyl-1-butanol	C6H14O		[198]	[408]				
565-67-3	2-methyl-3-pentanol	C6H14O				[178]			
565-60-6	2-Pentanol, 3-methyl-	C6H14O			[277]				
589-35-5	3-methyl-1-pentanol	C6H14O			[369, 408]				[111]
77-74-7	3-methyl-3-pentanol	C6H14O		[198]	[408]				
626-89-1	4-methyl-1-pentanol	C6H14O	[9, 216]		[359]				[241]
108-11-2	4-methyl-2-pentanol / 2-methyl-4-pentanol	C6H14O	[216]	[196, 198, 202, 258]	[408]				
27522-11-8	2-Ethyl-1-pentanol	C7H16O					[167]		
13231-81-7	3-methylhexanol	C7H16O					[156]		
2313-61-3	4-methyl-2-hexanol	C7H16O	[216]						

623-55-2	5-methyl-3-hexanol	C7H16O		[193]					[125]	
16325-63-6	2,4,4-Trimethyl-1-pentanol	C8H18O		[196]						
104-76-7	2-ethyl-1-hexanol / isooctanol	C8H18O	[9, 216, 222]	[193, 196, 202, 251]	[6, 57, 118, 265, 267, 277, 296, 304, 353, 364, 369, 384]	[176, 183, 190, 187, 409]	[156, 163]	[124]		418, 110, 113, 111, 116,
106-67-2	2-ethyl-4-methyl-1-pentanol	C8H18O		[253]				[125]		
19550-05-1	2-Hexanol, 3,4-dimethyl-	C8H18O				[369]				
58175-57-8	2-Propyl-1-pentanol	C8H18O				[262, 274]				[241]
589-98-0	3-octanol / ethyl hexanol	C8H18O	[9]	[196, 202]				[125, 133]		
7212-53-5	5-Methyl-1-heptanol	C8H18O								[111]
68526-83-0	6-Methyl-1-heptanol / isooctanol	C8H18O								[111]
108-82-7	2,6-Dimethyl-4-heptanol	C9H20O								[111]
628-44-4	2-methyl-2-octanol	C9H20O						[125]		
27644-49-1	2-Octanol, 3-methyl	C9H20O								[241]
106-21-8	1-Octanol, 3,7-dimethyl-	C10H22O				[57]				
15250-22-3	2,7-Dimethyl-1-octanol	C10H22O								[111]
10042-59-8	2-Propyl-1-heptanol	C10H22O				[57]				
78-69-3	Tetrahydrolinalool / 3,7-dimethyl-3-octanol	C10H22O		[196, 202]		[57]				
33933-80-1	4,8-dimethylnonanol	C11H24O						[156]		
3913-02-8	2-butyl-1-octanol	C12H26O				[265, 277]				[110] [241]
6750-34-1	3,7,11-Trimethyl-1-dodecanol	C15H32O				[277, 282]				[111]
2425-77-6	1-Decanol, 2-hexyl	C16H34O				[277]				
<i>Unsaturated alcohols</i>										
107-18-6	2-propen-1-ol	C3H6O								[110]
764-01-2	2-Butyn-1-ol	C4H6O								[241]
927-7-2	3-butyn-1-ol	C4H6O						[126]		

115-18-4	3-Buten-2-ol 2-methyl	C5H10O		[196]					
616-25-1	1-penten-3-ol	C5H10O				[163]	[125]		
556-82-1	3-methyl-2-buten-1-ol	C5H10O	[9]						
763-32-6	3-methyl-3-buten-1-ol	C5H10O	[9]	[193, 196]					[111]
1576-96-1	E-2-penten-1-ol	C5H10O				[156]			[241]
1576-95-0	Z-2-penten-1-ol	C5H10O				[156]			
924-41-4	1,5-hexadien-3-ol	C6H10O					[125]		
4798-44-1	1-hexen-3-ol	C6H12O				[178]			
2305-21-7	2-hexen-1-ol	C6H12O				[178]			
918-85-4	3-methyl-1-penten-3-ol	C6H12O							[110]
1569-59-1	3-methyl-4-penten-2-ol	C6H12O				[178]			
928-92-7	4-hexen-1-ol	C6H12O				[178]			
763-89-3	4-methyl-3-penten-1-ol	C6H12O	[9]	[193]					
821-41-0	5-Hexen-1-ol	C6H12O				[369]			
928-95-0	trans-2-Hexen-1-ol / 2-Hexen-1-ol, (E)-	C6H12O				[377]			
3230-69-1	3-Methyl-1-penten-4-yn-3-ol	C6H8O				[326]			
2883-45-6	1,6, heptadien-4-ol	C7H12O					[176]		
19781-81-8	4-Heptyn-2-ol	C7H12O				[369]			
17123-61-4	5-Methyl-1,5-hexadien-3-ol	C7H12O				[369]			
4938-52-7	1-hepten-3-ol	C7H14O				[178]	[167]		
3521-91-3	1-hepten-4-ol	C7H14O						[126]	
19781-52-3	2,3-Dimethyl-4-penten-2-ol	C7H14O				[341]			
1335-09-7	1-octen-1-ol	C8H16O						[124]	
3391-86-4	1-octen-3-ol	C8H16O	[9, 216, 247]	[196]	[380]	[176, 178]	[163]	[118, 124, 130]	[111, 116]
22104-78-5	2-octen-1-ol	C8H16O				[178]	[156]	[124, 128]	[111]
26001-58-1	2-octen-1-ol, (Z)-	C8H16O							[110]
53907-72-5	7-octen-4-ol	C8H16O					[156]		
21964-44-3	1-Nonen-3-ol	C9H18O				[380]			

35192-73-5	1-Nonen-4-ol	C9H18O			[369]			
865444-39-9	3-methyl-3-octenol	C9H18O				[178]		
ui	nonenol	C9H18O				[178]		
ui	decenol, substituted	unknown				[178]		
78-70-6	3,7-dimethyl-1,6-octadien-3-ol / linalool / beta-linalool	C10H18O	[9]	[193, 196, 202]	[57, 353]	[176, 189, 192]	[162, 163]	[114]
5877-42-9	4-ethyl-1-octyn-3-ol	C10H18O			[291]			
106-24-1	E-3,7-dimethyl-2,6-octadien-1-ol / geraniol	C10H18O				[176, 182]		[182, 420]
106-25-2	nerol	C10H18O		[196]				[110, 111]
5986-38-9	Ocimenol / trans-ocimenol	C10H18O		[196]				
90823-36-2	santoline alcohol	C10H18O					[126]	
7643-59-6	$\beta$ -Ocimenol (Z) / cis-ocimenol	C10H18O		[196]				
13019-22-2	9-decenol	C10H18O2			[383]			
10339-60-3	(E)-3-Decen-1-ol / trans	C10H20O		[253]				
18479-58-8	2,6-dimethyl-7-octen-2-ol / dihydromyrcenol	C10H20O	[9]	[193, 194, 196, 202, 250]	[57]	[176]		[111]
18409-18-2	2-Decen-1-ol, (E)-	C10H20O				[409]		
40607-48-5	3,7-dimethyl-2-octen-1-ol	C10H20O						[111]
106-22-9	3,7-dimethyl-6-octen-1-ol / citronellol	C10H20O			[57]	[176, 178, 182]		
18479-51-1	Dihydrolinalool	C10H20O		[250]				
na	2-Butyl-2,7-octadien-1-ol	C12H22O			[282]			
22104-81-0	2-dodecenol / 2-dodecen-1-ol	C12H24O			[291, 369]			
74962-98-4	2-tridecen-1-ol	C13H26O	[223]					
22104-82-1	2-tetradecen-1-ol	C14H24O	[223]					

7212-44-4	Nerolidol	C15H26O		[196, 202, 253]				
na	hexadecadienol	C16H30O				[182]		[420]
na	2-hexadecen-1-ol u.i	C16H32O	[223]					
56554-77-9	13-Heptadecyn-1-ol	C17H32O		[253]				
	<i>cycloalkyl alkanols</i>							
1686-20-0	$\alpha$ -Phellandren-8-ol	C10H16O		[196]				
65293-09-6	$\beta$ - Phellandren-8-ol	C10H16O		[196]				
337966-85-5	1-cyclopentyl-2,2-dimethyl-1-propanol	C10H20O					[126]	
3637-63-6	cyclooctylmethanol	C9H18O			[291]			
	<i>phenyl alkanols</i>							
100-51-6	benzyl alcohol / benzenemethanol	C7H8O	[9]	[193, 196]	[408]	[178, 185, 190, 192]	[118]	[116, 418]
98-85-1	1-phenyl ethanol	C8H10O			[383]			[418]
60-12-8	2-phenyl ethanol / phenylethyl alcohol / phenyl ethanol	C8H10O	[9]		[60, 331]	[176, 178, 182]	[162]	[111, 116]
617-94-7	2-Phenyl-2-propanol	C9H12O		[251]				
122-97-4	3-phenylpropan-1-ol / benzenepropanol	C9H12O	[9]					
100-86-7	2-Methyl-1-phenylpropan-2-ol	C10H14O						[111]
536-60-7	cuminyl alcohol	C10H14O		[193]				
513-23-5	isothujol	C10H14O						[110]
1197-01-9	p-cymene-8-ol / p-Cymenol	C10H14O		[193, 196, 202, 250]				
	<i>cyclohexanols</i>							
108-93-0	cyclohexanol	C6H12O	[248]	[196, 257]				
590-67-0	1-Methylcyclohexanol	C7H14O		[254]				
5715-23-1	3,4-dimethylcyclohexanol	C8H16O						[110]



5441-52-1	3,5-dimethylcyclohexanol	C8H16O							[110]
19781-61-4	4-ethylcyclohexanol	C8H16O					[125]		
99-48-9	(-)-carveol	C10H16O		[193, 196]	[275, 408]				
425394-92-9	2-Cyclohexen-1-ol, 1-methyl-4-(1-methylethenyl)-, trans-	C10H16O			[388]				
50373-36-9	Isopulegol /2-isopropenyl-5-methylcyclohexanol	C10H18O		[196]					
586-82-3	1-Terpineol / p-menth-3-en-ol	C10H18O		[196]					
28219-82-1	4-terpineol / p-menth-1-en-4-ol	C10H18O		[196, 202]	[403]	[176]			
619-01-2	dihydrocarveol / 1,6-dihydrocarveol	C10H18O			[378]				[110]
586-81-2	gamma-terpineol	C10H18O				[182]			[420]
98-55-5	p-menth-1-en-8-ol / $\alpha$ -Terpineol	C10H18O	[9, 222]	[193, 196, 202, 256, 258]	[57]	[182]	[155, 156, 163]		
138-87-4	$\beta$ -Terpineol	C10H18O		[196]					
2216-51-5	(-)-menthol / L-menthol / levomenthol / [1R-(1.alpha.,2.beta.,5.alpha.)]-5-methyl-2-(1-methylethyl)cyclohexanol	C10H20O		[202, 254]	[388]	[409]	[125]		[110]
21129-27-1	1-methyl-4-(1-methylethyl)cyclohexanol	C10H20O			[408]				
1490-04-6	2-isopropyl-5-methylcyclohexanol / L-(-)-menthol	C10H20O			[408]				
23283-97-8	Iso-menthol	C10H20O		[254]					
89-78-1	menthol / 5-methyl-2-(1-methylethyl)cyclohexanol / 2-isopropyl-5-methylcyclohexanol / 5-Methyl-2-propan-2-ylcyclohexan-1-ol	C10H20O	[9, 216, 222, 247]	[193, 194, 196, 250, 253]	[57, 320, 384, 386]	[176]		[113, 114]	[241]

<i>other cycloalkanols</i>						
2919-23-5	Cyclobutanol	C4H8O		[369]		
96-41-3	Cyclopentanol	C5H10O		[364]		[241]
1462-03-9	1-methylcyclopentanol	C6H12O			[176]	
24070-77-7	2-methylcyclopentanol	C6H12O			[176]	
18729-48-1	3-methylcyclopentanol	C6H12O			[176]	
<i>Multi-cyclic alkanols</i>						
547-61-5	trans-pinocarveol	C10H16O	[196]			
768-95-6	adamantyl alcohol / tricyclo[3.3.1.1 <sup>3,7</sup> ]decan-1-ol	C10H16O		[408]		
515-00-4	Myrtenol	C10H16O	[196]			
1632-73-1	Endo fenchol / fenchyl alcohol / (+) fenchol	C10H18O	[196]			
507-70-0	Borneol	C10H18O	[196]	[388]		
na	Isolongifolene-5-ol	C15H24O		[304]		
77-53-2	cedrol	C15H26O		[344]	[176]	
465-24-7	Longiborneol	C15H26O		[344]		
na	6-Isopropenyl-4,8a-dimethyl- 1,2,3,5,6,7,8,8a-octahydro- naphthalen-2-ol	C15H28O	[253]			
57-88-5	cholest-5-en-3-ol / cholesterol	C27H46O			[178]	[419]
<i>diols</i>						
107-21-1	ethylene glycol	C2H6O2			[178]	[141]
57-55-6	1,2-propanediol / propylene glycol	C3H8O2		[369]		[116]
107-88-0	1,3-butanediol	C4H10O		[377]		
513-85-9	2,3-butanediol	C4H10O2	[256, 258]	[360, 378, 408]		[111, 116] [241]
5057-98-7	Cyclopentane-1,2-diol	C5H10O2		[277]		
625-69-4	2,4-pentanediol	C5H12O2				[117]

27583-37-5	1,2-Cyclopentanediol, 3-methyl-	C6H12O2							[241]
7319-23-5	3-hexene-2,5-diol	C6H12O2			[369]	[176]			
<i>triols</i>									
56-81-5	1,2,3-propanetriol / glycerine	C3H8O3	[249]		[408]	[176, 178]			
77-85-0	2-(hydroxymethyl)-2-methyl-1,3-propanediol	C5H12O3				[178]			
<i>Pentols</i>									
n/a	4-methylmannitol	C7H16O6							[114]
<i>Phenols</i>									
na	ethyl phenol	C6H10O			[307, 309]				
108-95-2	phenol / Hydroxybenzene	C6H6O	[9, 222, 248]	[193, 194, 202, 250, 252, 254, 256-258]	[6, 57, 61, 87, 260, 277, 282, 304, 307-309, 329, 337, 338, 344, 353, 354, 370, 374, 377, 380, 389, 394]	[176, 178-180, 185, 192]		[110-114, 116, 117, 418, 419, 421]	[241]
87-66-1	1,2,3-Benzenetriol	C6H6O3					[167]		
108-39-4	3-methylphenol / m-cresol / 1-hydroxy-3-methylbenzene	C7H8O			[336, 408]			111,116,	
106-44-5	4-methylphenol / p-cresol	C7H8O	[9, 222, 248]	[193, 194, 202, 208, 250, 254-258]	[394, 408]	[176, 414]		[110, 111, 116, 117, 418, 421]	[241]
1319-77-3	methylphenol / cresol	C7H8O	[223]		[57, 307, 309]				
526-75-0	1,2,3-xilenol	C8H10O			[408]				
108-68-9	1,3,5-xilenol	C8H10O			[408]				

576-26-1	2,6-Dimethylphenol	C8H10O	[202]		
123-07-9	4-ethylphenol / 1-hydroxy-4-ethylbenzene	C8H10O		[394]	
10277-93-7	p-isopropenylphenol	C9H10O			[125]
99-89-8	p-Isopropenylphenol	C9H12O		[167]	
499-75-2	2-methyl-5-(1-methylethyl)-phenol / o-thymol	C10H14O	[9, 222]	[254]	
98-54-4	p-Tert-butyl-phenol	C10H14O	[250]		
89-83-8	thymol	C10H14O			[110]
80-46-6	4-(1,1-Dimethylpropyl)-phenol	C11H16O			[113]
2078-54-8	2,6-Diisopropylphenol	C12H18O	[251]		
140-66-9	4-(1,1,3,3-Tetramethylbutyl)-phenol	C14H22O	[253]		[113]
96-76-4	2,4-Bis(1,1-dimethylethyl)-phenol / 2,4-Di-tert-butyl phenol	C14H22O	[250, 253, 254]	[364]	
5875-45-6	2,5-bis(1,1-dimethylethyl)-phenol / 2,5-di-tertbutylphenol	C14H22O			[113]
128-37-0	butylated hydroxytoluene / BHT / Phenol, 2,6-di-tert-butyl-, 4-methyl- / dibutylhydroxytoluene	C15H24O		[292, 351, 364]	[418]
732-26-3	2,4,6-tri-tert-butylphenol	C18H30O			[176]
90-43-7	o-Hydroxybiphenyl / 2-phenoxyphenol	C12H10O		[341]	
85-95-0	Benzestrol	C20H26O2	[253]		