

Table 6. Table showing all the alcohol volatiles (including hydroxy compounds) reported in the literature that have been detected in faeces, urine, breath, skin secretions, milk, blood and saliva from healthy humans

CAS-number	Compound name	Faeces	Urine	Breath	Skin	Milk	Blood	Saliva
67-56-1	methanol	F		Br		M	Bl	
64-17-5	ethanol	F	U	Br			Bl	Sa
71-23-8	1-propanol	F	U	Br		M	Bl	Sa
67-63-0	2-propanol	F	U	Br		M	Bl	Sa
71-36-3	1-butanol	F	U	Br	Sk	M	Bl	Sa
78-92-2	2-butanol	F		Br	Sk		Bl	Sa
71-41-0	pentanol	F	U	Br	Sk	M	Bl	Sa
6032-29-7	2-pentanol	F						
584-02-1	3-pentanol	F						
111-27-3	1-hexanol	F	U		Sk			Sa
626-93-7	2-hexanol				Sk			
623-37-0	3- hexanol				Sk			Sa
111-70-6	1-heptanol	F						
111-87-5	1-octanol	F	U		Sk			
589-98-0	3-octanol	F						
143-08-8	1-nonanol	F						
628-99-9	2-nonanol	F						
112-30-1	1-decanol	F			Sk			
1120-06-5	2-decanol				Sk			
30207-98-8	undecanol				Sk			
1653-30-1	2-undecanol	F	U					
112-53-8	1-dodecanol	F			Sk			Sa
112-70-9	1-tridecanol	F	U	Br	Sk			
112-72-1	1-tetradecanol				Sk			
629-76-5	pentadecanol				Sk			
36653-82-4	1-hexadecanol	F		Br	Sk			
14852-31-4	2-hexadecanol			Br	Sk			
16813-18-6	2-heptadecanol				Sk			
112-92-5	octadecanol				Sk			Sa
629-96-9	eicosanol							Sa
	branched							
75-65-0	2-methyl-2-propanol			Br		M	Bl	
78-83-1	2-methyl-1-propanol	F	U	Br			Bl	Sa
123-51-3	3-methyl-1-butanol	F	U				Bl	Sa
137-32-6	2-methyl-1-butanol	F	U					
598-75-4	3-methyl-2-butanol		U					
97-95-0	2-ethyl-1-butanol			Br				
589-35-5	3-methyl-1-pentanol			Br				
626-89-1	4-methyl-1-pentanol	F						
108-11-2	4-methyl-2-pentanol		U	Br				
565-67-3	2-methyl-3-pentanol				Sk			
77-74-7	3-methyl-3-pentanol			Br				
106-67-2	2-ethyl-4-methyl-1-pentanol			Br				
13231-81-7	3-methylhexanol					M		

CAS-number	Compound name	Faeces	Urine	Breath	Skin	Milk	Blood	Saliva
623-55-2	5-methyl-3-hexanol		U					
104-76-7	2-ethyl-1-hexanol	F	U	Br	Sk	M		Sa
3913-02-8	2-butyl-1-octanol							Sa
33933-80-1	4,8-dimethylnonanol					M		
	unsaturated (not cyclic or aromatic)							
107-18-6	2-propen-1-ol			Br				Sa
6117-91-5	2-buten-1-ol			Br				
556-82-1	3-methyl-2-buten-1-ol	F						
763-32-6	3-methyl-3-buten-1-ol	F	U					
1576-96-1	E-2-penten-1-ol					M		
1576-95-0	Z-2-penten-1-ol					M		
4798-44-1	1-hexen-3-ol				Sk			
2305-21-7	2-hexen-1-ol				Sk			
928-92-7	4-hexen-1-ol				Sk			
2883-45-6	1,6, heptadien-4-ol				Sk			
918-85-4	3-methyl-1-penten-3-ol							Sa
1569-59-1	3-methyl-4-penten-2-ol				Sk			
763-89-3	4-methyl-3-penten-1-ol	F	U					
4938-52-7	1-hepten-3-ol				Sk			
3391-86-4	1-octen-3-ol	F			Sk		Bl	
26001-58-1	2-octen-1-ol, (Z)-							Sa
22104-78-5	2-octen-1-ol				Sk	M	Bl	
53907-72-5	7-octen-4-ol					M		
865444-39-9	3-methyl-3-octenol				Sk			
ui	nonenol				Sk			
ui	decenol, substituted				Sk			
106-25-2	nerol							Sa
78-70-6	3,7-dimethyl-1,6-octadien-3-ol / Linalool	F	U		Sk	M		
106-24-1	E-3,7-dimethyl-2,6-octadien-1-ol / geraniol				Sk			Sa
106-22-9	3,7-dimethyl-6-octen-1-ol / citronellol				Sk			
18479-58-8	2,6-dimethyl-7-octen-2-ol / dihydromyrcenol	F	U		Sk			
87549-32-4	dodecenol				Sk			
74962-98-4	2-tridecen-1-ol	F						
22104-82-1	2-tetradecen-1-ol	F						
22104-83-2	2-hexadecen-1-ol	F						
53042-79-8	hexadecadienol				Sk			Sa
	phenols							
108-95-2	phenol	F	U	Br	Sk			Sa
106-44-5	4-methylphenol / p-Cresol	F	U	Br	Sk			Sa
90-05-1	2-methoxyphenol		U	Br		M		
150-76-5	4-methoxyphenol						Bl	
499-75-2	2-methyl-5-(1-methylethyl)- phenol	F						
14035-34-8	2,6-bis(1,1-dimethylethyl)-4-(1-oxopropyl) phenol	F			Sk			
732-26-3	2,4,6-tri-tert-butyl-phenol				Sk			
56484-52-7	o-2-(butenylthio)phenol				Sk			

CAS-number	Compound name	Faeces	Urine	Breath	Skin	Milk	Blood	Saliva
3380-34-5	5-chloro-2-(2,4-dichlorophenoxy)-phenol / triclosan						Bl	
79755-43-4	3,5-dibromo-2-(2,4-dibromophenoxy)phenol						Bl	
615-58-7	2,4-dibromophenol						Bl	
87-86-5	pentachlorophenol						Bl	
118-79-6	2,4,6-tribromophenol						Bl	
56961-20-7	3,4,5-trichloro-2-hydroxyphenol						Bl	
36313-15-2	tetrabromophenol						Bl	
1198-55-6	tetrachloro-2-hydroxyphenol						Bl	
58-90-2	2,3,4,6-tetrachlorophenol						Bl	
121-34-6	4-hydroxy-3-methoxybenzoic acid				Sk			
55-10-7	4-hydroxy-3-methoxymandelic acid							Sa
57295-30-4	3-hydroxy-4-methylbenzaldehyde				Sk			
108-39-4	1-hydroxy-3-methylbenzene			Br				
99-93-4	1-(4-hydroxyphenyl)ethanone			Br				
	other aromatic							
100-51-6	benzyl alcohol	F	U	Br	Sk			Sa
536-60-7	cumyl alcohol		U					
1197-01-9	p-cymene-8-ol		U					
24063-71-6	isocurcumenol				Sk			
97-53-0	eugenol				Sk			Sa
97-54-1	isoeugenol				Sk			Sa
122-99-6	2-phenoxyethanol	F		Br	Sk			Sa
60-12-8	phenylethyl alcohol / phenyl ethanol	F			Sk	M		Sa
122-97-4	3-phenylpropan-1-ol	F						
90-02-8	2-hydroxybenzaldehyde	F						
99-96-7	4-hydroxybenzoic acid				Sk			
19438-10-9	3-hydroxybenzoic acid, methyl ester				Sk			
4191-73-5	4-hydroxybenzoic acid, propyl ester				Sk			
501-97-3	p-hydroxyhydrocinnamic acid							Sa
21-33-5	4-hydroxy-3-methoxybenzaldehyde / Vanillin		U			M		
108-68-9	1,3,5-xlenol			Br				
526-75-0	1,2,3-Xlenol			Br				
na	3-hydroxy-2,2',3',4,4',6,6'-heptachlorobiphenyl						Bl	
na	3-hydroxy-2,2',3',4,4',5',6'-heptachlorobiphenyl						Bl	
na	3-hydroxy-2,2',3',4,4',5,6'-heptachlorobiphenyl						Bl	
na	3-hydroxy-2,2',3',4,4',5,5'-heptachlorobiphenyl						Bl	
190317-24-9	4-hydroxy-2,3,3',4',5,5',6'-heptachlorobiphenyl						Bl	
158076-64-3	4-hydroxy-2,2',3,3',4',5,5'-heptachlorobiphenyl						Bl	
158076-65-4	4-hydroxy-2,2',3,3',4',5,6'-heptachlorobiphenyl						Bl	

CAS-number	Compound name	Faeces	Urine	Breath	Skin	Milk	Blood	Saliva
158076-68-7	4-hydroxy-2,2',3,4',5,5',6-heptachlorobiphenyl						Bl	
356033-96-0	4-hydroxy-2,2',3,3',5,5',6-heptachlorobiphenyl						Bl	
na	4-hydroxy-2,2',3,3',5,6-hexachlorobiphenyl						Bl	
na	3-hydroxy-2,2',4,4',5,5'-hexachlorobiphenyl						Bl	
145413-90-7	4-hydroxy-2,2',3,4',5,5'-hexachlorobiphenyl						Bl	
na	3-hydroxy-2,2',3',4,4',5-hexachlorobiphenyl						Bl	
na	4-hydroxy-2,2',3',4,4',5-hexachlorobiphenyl						Bl	
941713-66-2	4-hydroxy-2,3,3',4',5,6-hexachlorobiphenyl						Bl	
na	4-hydroxy-2,2',3,3',4',5,5',6,6'-nonachlorobiphenyl						Bl	
na	3-hydroxy-2,2',3',4,4',5,5',6'-octachlorobiphenyl						Bl	
na	4-hydroxy-2,2',3,3',5,5',6,6'-octachlorobiphenyl						Bl	
na	4-hydroxy-2,2',3,3',4',5,5',6'-octachlorobiphenyl						Bl	
na	3-hydroxy-2,2',3',4,4'-pentachlorobiphenyl						Bl	
170946-11-9	3-hydroxy-2,3',4,4',5-pentachlorobiphenyl						Bl	
na	4-hydroxy-2,3,3',4',5-pentachlorobiphenyl						Bl	
na	4-hydroxy-2',3,3',4',5-pentachlorobiphenyl						Bl	
na	4-hydroxy-2',3,4',5,5'-pentachlorobiphenyl						Bl	
na	4-hydroxy-2,2',3,4',5'-pentachlorobiphenyl						Bl	
na	4-hydroxy-2,2',4',5,5'-pentachlorobiphenyl						Bl	
na	4-hydroxy-3,3',4',5,5'-pentachlorobiphenyl						Bl	
na	3-hydroxy-2',4,4',5-tetrachlorobiphenyl						Bl	
na	4-hydroxy-3,3',4',5-tetrachlorobiphenyl						Bl	
77212-81-8	4-hydroxyheptachlorostyrene						Bl	
	cyclic							
1462-03-9	1-methylcyclopentanol				Sk			
24070-77-7	2-methylcyclopentanol				Sk			
18729-48-1	3-methylcyclopentanol				Sk			
108-93-0	cyclohexanol		U					
5715-23-1	3,4-dimethylcyclohexanol							Sa
5441-52-1	3,5-dimethylcyclohexanol							Sa
98-55-5	p-menth-1-en-8-ol	F			Sk			

CAS-number	Compound name	Faeces	Urine	Breath	Skin	Milk	Blood	Saliva
2216-51-5	(-)-menthol							Sa
89-78-1	menthol / 5-methyl-2-(1-methylethyl)cyclohexanol	F	U		Sk			
21129-27-1	1-methyl-4-(1-methylethyl)cyclohexanol			Br				
99-48-9	(-)-carveol		U	Br				
619-01-2	dihydrocarveol							Sa
1490-04-6	2-isopropyl-5-methyl-cyclohexanol			Br				
10482-56-1	alpha-terpineol / 4-terpinol	F	U	Br	Sk	M		
586-81-2	gamma-terpineol				Sk			Sa
89-83-8	thymol							Sa
57-88-5	cholest-5-en-3-ol				Sk			
739-27-5	3-hydroxyandrostan-11,17-dione				Sk			
4412-91-3	3-furanmethanol	F						
98-00-0	2-furanmethanol / furfuryl alcohol		U	Br	Sk	M		
67-47-0	5-(hydroxymethyl)-2-furaldehyde				Sk			
5989-33-3	trans-linaloloxide		U					
513-23-5	isothujol							Sa
77-53-2	cedrol				Sk			
768-95-6	adamantyl alcohol / tricyclo[3.3.1.1 ^{3,7}]decan-1-ol			Br				
698-10-2	5-ethyl-3-hydroxy-4-methyl-2(5H)-furanone / Abhexone		U					
28664-35-9	3-hydroxy-4,5-dimethyl-2(5H)furanone		U			M		
3658-77-3	4-hydroxy-2,5-dimethyl-3(2H)furanone					M		
	diols and triols							
107-21-1	ethylene glycol				Sk		Bl	
57-55-6	1,2-propanediol			Br				
513-85-9	2,3-butanediol		U	Br				
7319-23-5	3-hexene-2,5-diol				Sk			
144-19-4	2,2,4-trimethylpentan-1,3-diol					M		
56-81-5	1,2,3-propanetriol			Br	Sk			
77-85-0	2-(hydroxymethyl)-2-methyl-1,3-propanediol				Sk			
	alkoxy alcohols							
110-80-5	2-ethoxyethanol	F		Br				
111-90-0	2-(2-ethoxyethoxy)-ethanol	F		Br				
111-76-2	2-butoxyethan-1-ol		U	Br				
54446-78-5	1-(2-butoxyethoxy)ethanol			Br				
5131-66-8	1-butoxypropan-2-ol			Br				
623-69-8	1,3-dimethoxy-2-propanol			Br				
110-98-5	1,1'-oxybis-2-propanol / diisopropyl ether				Sk			
20324-32-7	1-(2-methoxy-1-methylethoxy)-2-propanol			Br				
13429-07-7	1-(2-methoxypropoxy)-2-propanol			Br	Sk			
34590-94-8	(2-methoxymethylethoxy)propanol			Br				
	others							
7722-84-1	hydrogen peroxide			Br				
141-46-8	hydroxy-acetaldehyde			Br				

CAS-number	Compound name	Faeces	Urine	Breath	Skin	Milk	Blood	Saliva
ui	a hydroxy acetanilide				Sk			Sa
107-89-1	3-hydroxybutanal			Br				
300-85-6	3-hydroxybutanoic acid / 3-hydroxy-butyric acid			Br				
131831-55-5	hydroxybutanoic acid, ethyl ester				Sk			
513-86-0	3-hydroxy-2-butanone	F		Br				Sa
21856-89-3	6-hydroxy-hexan-2-one				Sk			
10191-24-9	3-hydroxyhexanoic acid				Sk			
17587-29-0	3-hydroxyheptanoic acid				Sk			
33044-91-6	3-hydroxydecanoic acid				Sk			
157425-52-0/ 157425-53-1	3-hydroxy-4-methyldecanoic acid				Sk			
160595-71-1	3-hydroxy-3-methylheptanoic acid				Sk			
903503-32-2	3-hydroxy-4-methylheptanoic acid				Sk			
58888-76-9	3-hydroxy-3-methylhexanoic acid				Sk			
59866-91-0	3-hydroxy-4-methylhexanoic acid				Sk			
903503-33-3	3-hydroxy-4-methylnonanoic acid				Sk			
14292-27-4	3-hydroxyoctanoic acid				Sk			
764-89-6	8-hydroxyoctanoic acid				Sk			
6966-34-3	3-hydroxy-3-methyloctanoic acid				Sk			
875712-96-2	3-hydroxy-4-methyloctanoic acid				Sk			
40165-87-5	3-hydroxynonanoic acid				Sk			
109-86-4	1-hydroxy-2-methoxyethane			Br				
2043-43-8	2-hydroxypropanamide			Br				
116-09-6	1-hydroxy-2-propanone	F		Br				
75-08-1	thioethanol			Br				
548740-99-4	3-sulfanylpentan-1-ol				Sk			
51755-83-0	2-sulfanylhexasan-1-ol				Sk			
227456-33-9	2-methyl-3-sulfanylbutan-1-ol				Sk			
307964-23-4	3-methyl-3-sulfanylhexasan-1-ol				Sk			
22551-26-4	3-(methylthio)-1,2-propanediol				Sk			
505-10-2	3-(methylthio)-1-propanol	F						
3040-44-6	1-piperidineethanol				Sk			

NOTES

ui unidentified isomer

na no CAS-number available