

Table 9b. Table showing all the other straight chain aliphatic acid esters 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
	methanoic acid esters							
107-31-3	methanoic acid, methyl ester / methyl formate			Br				
109-94-4	methanoic acid, ethyl ester / ethyl formate			Br			Bl	
110-74-7	methanoic acid, 1-propyl ester / n-propyl formate			Br				
592-84-7	methanoic acid, butyl ester	F						
638-49-3	methanoic acid, pentyl ester	F						
110-45-2	methanoic acid, isopentyl ester					M		
112-23-2	methanoic acid, heptyl ester	F						
	propanoic acid esters							
554-12-1	propanoic acid, methyl ester	F		Br				Sa
105-37-3	propanoic acid, ethyl ester	F		Br				
106-36-5	propanoic acid, propyl ester	F		Br				
590-01-2	propanoic acid, butyl ester	F						
624-54-4	propanoic acid, pentyl ester	F						
2445-76-3	propanoic acid, hexyl ester	F						
105-38-4	propanoic acid, vinyl ester					M		
103-58-2	propanoic acid, 2-methyl-3-phenyl propyl ester	F						
74381-40-1	propanoic acid, 2-methyl-1-(1,1-dimethylethyl)-2-methyl-1,3-propanediyl ester	F	U					
	butanoic acid esters							
623-42-7	butanoic acid, methyl ester	F			Sk			
105-54-4	butanoic acid, ethyl ester	F		Br				
105-66-8	butanoic acid, propyl ester	F		Br				Sa
109-21-7	butanoic acid, butyl ester	F	U					
106-27-4	butanoic acid, isopentyl ester / isoamyl butanoate			Br				
ui	di butanoic acid, isooctyl diester / isooctanedioldibutyrate				Sk			Sa
	pentanoic acid esters							
624-24-8	pentanoic acid, methyl ester	F						
539-82-2	pentanoic acid, ethyl ester	F						
591-68-4	pentanoic acid, butyl ester	F						
	hexanoic acid esters							
106-70-7	hexanoic acid, methyl ester	F			Sk			
123-66-0	hexanoic acid, ethyl ester / ethyl hexanoate	F				M		Sa
626-77-7	hexanoic acid, propyl ester	F						
626-82-4	hexanoic acid, butyl ester	F						
6938-60-9	hexanoic acid, dodecyl ester				Sk			
3050-69-9	hexanoic acid, ethenyl ester	F						
	heptanoic acid esters							

CAS-number	Compound name	Faeces	Urine	Breath	Skin	Milk	Blood	Saliva
106-73-0	heptanoic acid, methyl ester	F						
106-30-9	heptanoic acid, ethyl ester	F						
	octanoic acid esters							
106-32-1	octanoic acid, ethyl ester				Sk			
2306-89-0	octanoic acid, decyl ester				Sk			
20292-09-5	octanoic acid, dodecyl ester				Sk			
16456-36-3	octanoic acid, tetradecyl ester				Sk			
	nonanoic acid esters							
1731-84-6	nonanoic acid, methyl ester				Sk			
	decanoic acid esters							
110-42-9	decanoic acid, methyl ester				Sk	M		
110-38-3	decanoic acid, ethyl ester					M		
	undecanoic acid esters							
1731-86-8	undecanoic acid, methyl ester				Sk			
	dodecanoic acid esters							
111-82-0	dodecanoic acid, methyl ester				Sk	M		
106-33-2	dodecanoic acid, ethyl ester					M		Sa
10233-13-3	dodecanoic acid, isopropyl ester / isopropyl dodecanoate				Sk			Sa
34316-64-8	dodecanoic acid, hexyl ester / hexyl dodecanoate				Sk			Sa
	tridecanoic acid esters							
1731-88-0	tridecanoic acid, methyl ester				Sk			
	tetradecanoic acid esters							
124-10-7	tetradecanoic acid, methyl ester				Sk	M		
124-06-1	tetradecanoic acid, ethyl ester				Sk			
110-27-0	tetradecanoic acid, 1-methylethyl ester / isopropyl myristate				Sk			Sa
127512-73-6	tetradecanoic acid, undecyl ester				Sk			
	pentadecanoic acid esters							
7132-64-1	pentadecanoic acid, methyl ester				Sk			
41114-00-5	pentadecanoic acid, ethyl ester				Sk			
	hexadecanoic acid esters							
112-39-0	hexadecanoic acid, methyl ester / methyl palmitate / methyl hexadecanoate				Sk	M		Sa
628-97-7	hexadecanoic acid, ethyl ester				Sk			
142-91-6	hexadecanoic acid, 1-methylethyl ester / isopropyl palmitate				Sk			Sa
111-06-8	hexadecanoic acid, butyl ester				Sk			
4219-49-2	hexadecanoic acid, 2-hydroxyethyl ester				Sk			
	heptadecanoic acid esters							
1731-92-6	heptadecanoic acid, methyl ester				Sk			
14010-23-2	heptadecanoic acid, ethyl ester				Sk			
	octadecanoic acid esters							
112-61-8	octadecanoic acid, methyl ester				Sk			
637-55-8	octadecanoic acid, phenyl ester				Sk			
	tetracosanoic acid esters							
2442-49-1	tetracosanoic acid, methyl ester				Sk			

NOTES ui unidentified isomer