

Table 5c. Table showing the non-cyclic alkenes (single double bond) reported in the literature that have been detected in the healthy human body

CAS-number	Compound name	Faeces	Urine	Breath	Skin	Milk	Blood	Saliva
74-85-1	ethene			Br				
115-07-1	propene	F		Br		M	Bl	
25167-67-3	butene ui					M		
106-98-9	1-butene	F		Br				
107-01-7	2-butene			Br ²				
25377-72-4	pentene ui				Sk	M		
109-67-1	1-pentene			Br				
109-68-2	2-pentene			Br ²				
25264-93-1	hexene ui					M		
592-41-6	1-hexene			Br				
592-43-8	2-hexene			Br ²				
592-47-2	3-hexene			Br				
25339-56-4	heptene ui					M		
592-76-7	1-heptene			Br				
592-77-8	2-heptene			Br ²				Sa ²
14686-14-7 and/or 7642-10-6	3-heptene			Br ²				Sa ²
25377-83-7	octene ui					M		
111-66-0	1-octene			Br	Sk			
111-67-1	2-octene	F		Br ²	Sk		Bl	Sa ²
592-98-3	3-octene	F ²		Br ²	Sk		Bl	Sa ²
592-99-4	4-octene			Br ²	Sk			
27215-95-8	nonene ui					M		
2216-38-8	2-nonene			Br ²				
20063-77-8	3-nonene			Br ²				
2198-23-4	4-nonene				Sk			
25339-53-1	decene ui					M		
20348-51-0	2-decene			Br ²				
19398-86-8	3-decene							Sa ²
19689-18-0	4-decene			Br				
19689-19-1	5-decene			Br	Sk			
28761-27-5	undecene ui					M		
821-95-4	1-undecene			Br				
693-62-9	4-undecene			Br ²				
4941-53-1	5-undecene			Br				
764-97-6	5-undecene			Br ²				Sa ²
25378-22-7	dodecene ui					M		
112-41-4	1-dodecene			Br	Sk			Sa
7206-13-5	2-dodecene			Br ²				Sa ²
7206-14-6and/or 7239-23-8	3-dodecene			Br ²				Sa ²
7206-15-7	4-dodecene			Br ²				
7206-16-8	5-dodecene			Br ²				
7206-17-9 and/or 7206-29-3	6-dodecene			Br ²				
24949-38-0	6-tridecene							Sa

CAS-number	Compound name	Faeces	Urine	Breath	Skin	Milk	Blood	Saliva
25377-82-6	tridecene ui					M		
41446-78-0	tetradecene ui				Sk			
1120-36-1	1-tetradecene							Sa
41446-63-3	7-tetradecene							Sa ²
13360-61-7	1-pentadecene	F						
26952-14-7	hexadecene				Sk			
112-88-9	1-octadecene	F						
5557-31-3	9-octadecene				Sk			
18435-45-5	1-nonadecene				Sk			
	branched							
115-11-7	2-methyl-1-propene	F		Br				
563-46-2	2-methyl-1-butene			Br				
563-45-1	3-methyl-1-butene			Br				
513-35-9	2-methyl-2-butene			Br				
563-78-0	2,3-dimethyl-1-butene	F		Br				
558-37-2	3,3-dimethyl-1-butene			Br				
563-79-1	2,3-dimethyl-2-butene	F		Br				
760-21-4	2-ethyl-1-butene / 3-methylenepentane			Br				
1632-16-2	3-methyleneheptane	F		Br				Sa
763-29-1	2-methyl-1-pentene			Br				
760-20-3	3-methyl-1-pentene			Br				
691-37-2	4-methyl-1-pentene			Br				
625-27-4	2-methyl-2-pentene			Br				
922-61-2	3-methyl-2-pentene	F		Br ²				
4461-48-7	4-methyl-2-pentene / 1,1-dimethyl-2-butene			Br	Sk			
674-76-0 and/or 691-38-3	4-methyl-2-pentene			Br ²				
625-65-0	2,4-dimethyl-2-pentene			Br				Sa
24910-63-2	3,4-dimethyl-2-pentene			Br ²				
690-08-4	4,4-dimethyl-2-pentene			Br ²				Sa ²
107-39-1	2,4,4-trimethyl-1-pentene			Br				
107-40-4	2,2,4-trimethyl-3-pentene			Br				
565-77-5	2,3,4-trimethyl-2-pentene			Br				
598-96-9	3,4,4-trimethyl-2-pentene			Br ²				
3404-80-6	2-ethyl-4-methyl-1-pentene			Br				
6094-02-6	2-methyl-1-hexene				Sk			
3404-61-3	3-methyl-1-hexene			Br				
3769-23-1	4-methyl-1-hexene			Br				
3524-73-0	5-methyl-1-hexene			Br				
2738-19-4	2-methyl-2-hexene			Br				
17618-77-8	3-methyl-2-hexene			Br				
3404-55-5	4-methyl-2-hexene			Br ²				
15840-60-5 and/or 692-24-0	2-methyl-3-hexene			Br ²				
3899-36-3 and/or 4914-89-0	3-methyl-3-hexene			Br ²				

CAS-number	Compound name	Faeces	Urine	Breath	Skin	Milk	Blood	Saliva
3404-65-7	5-methylhex-2-ene			Br ²				
692-70-6	2,5-dimethyl-3-hexene			Br ²				
16745-94-1	3,4-dimethyl-1-hexene			Br				
6975-92-4	2,5-dimethyl-1-hexene			Br				
7116-86-1	5,5-dimethyl-1-hexene			Br				
3404-78-2	2,5-dimethyl-2-hexene			Br				
3404-79-3	3,5-dimethyl-2-hexene			Br				
1632-16-2	2-ethyl-1-hexene / 3-methyleneheptane	F		Br				Sa
15870-10-7	2-methyl-1-heptene			Br	Sk			
4810-09-7	3-methyl-1-heptene							Sa
13151-05-8	4-methyl-1-heptene			Br				
5026-76-6	6-methyl-1-heptene			Br				
627-97-4	2-methyl-2-heptene			Br				
3404-75-9	3-methyl-2-heptene			Br				
3404-56-6	4-methyl-2-heptene			Br ²				Sa ²
73548-72-8	6-methyl-2-heptene			Br				
22487-87-2	5-methyl-2-heptene			Br				
7300-03-0	3-methyl-3-heptene							Sa
4485-16-9	4-methyl-3-heptene							Sa
19549-87-2	2,4-dimethyl-1-heptene			Br	Sk			
116164-06-8	2,2,3,5,6-pentamethyl-3-heptene			Br				
33933-74-3	4-ethyl-3-heptene				Sk			
33718-03-5	2,7-dimethyl-1-octene				Sk			
13151-27-4	2-methyl-1-decene			Br				
13151-29-6	4-methyl-1-decene			Br				
23381-92-2	2-methyl-2-decene			Br				
74630-30-1	4-methyl-2-decene			Br ²				
55170-80-4	2,4-dimethyl-1-decene			Br				
74421-03-7	2,4-dimethyl-2-decene			Br				
55499-02-0	2,2-dimethyl-3-decene			Br ²				
74630-39-0	4-methyl-1-undecene			Br				
74630-42-5	7-methyl-1-undecene			Br				
74630-40-3	8-methyl-1-undecene			Br				
56888-88-1	2-methyl-2-undecene				Sk			
74630-45-8	9-methyl-2-undecene			Br ²				
61142-40-3	4-methyl-4-undecene			Br ²	Sk			
1233691-10-5	3-methyl-5-undecene			Br ²	Sk			
31613-73-7	5-methyl-5-undecene			Br				
83687-45-0	6-methyl-5-undecene			Br				
39546-85-5	8-methyl-5-undecene			Br ²				
96533-16-3	methyldodecene				Sk			
55103-82-7	2-methyl-2-dodecene				Sk			
2437-93-6	3,7,11,15-tetramethyl-2-hexadecene	F						
ui	trimethyl-3-methylenehexadecane / ethyltrimethyl-1-pentadecene				Sk			

ui unspecified isomer

² for more information on stereoisomer(s) see entry in table 1.