

Table 5d. Table showing the non-cyclic alkenes (multiple double bonds) reported in the literature that have been detected in the healthy human body

CAS-number	Compound name	Faeces	Urine	Breath	Skin	Milk	Blood	Saliva
	dienes							
463-49-0	1,2-propadiene			Br				
78-79-5	isoprene			Br	Sk	M	Bl	
590-19-2	1,2-butadiene			Br				
106-99-0	1,3-butadiene			Br				
591-95-7	1,2-pentadiene			Br				
504-60-9	1,3-pentadiene	F		Br ²				
591-93-5	1,4-pentadiene	F		Br				
592-48-3	1,3-hexadiene			Br ²				
592-45-0	1,4-hexadiene			Br ²				
592-46-1	2,4-hexadiene			Br ²				
1541-23-7	1,5-heptadiene			Br				
39491-65-1 and/or 3710-30-3	1,3-octadiene							Sa ²
13643-08-8	2,4-octadiene			Br				Sa
34266-16-5	2,4-nonadiene				Sk			
61215-70-1	undecadiene				Sk			
74685-27-1	2,4-dodecadiene							Sa ²
	branched dienes							
598-25-4	1,1-dimethylallene			Br				
513-81-5	2,3-dimethyl-1,3-butadiene			Br				
3404-63-5	2-ethyl-1,3-butadiene			Br				
926-54-5	2-methyl-1,3-pentadiene			Br ²				
2787-43-1 and/or 2787-45-3	3-methyl-1,3-pentadiene			Br ²				
1115-08-8	3-methyl-1,4-pentadiene			Br				
926-56-7	4-methyl-1,3-pentadiene			Br				
ui	dimethylpentadiene				Sk			
1113-56-0	2,3-dimethyl-1,3-pentadiene			Br				
1000-86-8	2,4-dimethyl-1,3-pentadiene			Br				
1000-87-9	2,4-dimethyl-2,3-pentadiene			Br				
28823-41-8	2-methyl-2,4-hexadiene			Br				
6108-96-9	2-methyl-1,4-hexadiene			Br ²				
763-88-2	5-methyl-1,4-hexadiene			Br				
29253-64-3	2,5-dimethyl-1,3-hexadiene			Br				
1515-79-3	5,5-dimethyl-1,3-hexadiene			Br				
764-13-6	2,5-dimethyl-2,4-hexadiene			Br				Sa
2080-89-9	3-ethyl-1,4-hexadiene				Sk			
13643-06-6	6-methyl-1,6-heptadiene			Br				
13857-55-1	4-methyl-1,4-heptadiene			Br ²				
7270-50-0	6-methyl-1,5-heptadiene			Br				
74779-65-0	2,3-dimethyl-1,3-heptadiene			Br				

CAS-number	Compound name	Faeces	Urine	Breath	Skin	Milk	Blood	Saliva
6709-39-3	2,6-dimethyl-1,5-heptadiene			Br				
35387-63-4	2,5,5-trimethyl-2,6-heptadiene			Br				
ui	trimethyl-1,5-heptadiene				Sk			
74630-29-8	3,3,5-trimethyl-1,5-heptadiene			Br				
40195-09-3	2,7-dimethyl-1,6-octadiene			Br				
2436-90-0	3,7-dimethyl-1,6-octadiene	F ²						Sa ²
2792-39-4	2,6-dimethyl-2,6-octadiene			Br ²				
16736-42-8	2,6-dimethyl-2,7-octadiene			Br				
28980-73-6	2,7-dimethyl-3,5-octadiene	F ²						
	three or more double bonds							
2612-46-6	1,3,5-hexatriene			Br ²				
17679-93-5	1,3,5-heptatriene			Br ²				
460-01-5	2,6-dimethyl-1,3,5,7-octatetraene							Sa ²
673-84-7	2,6-dimethyl-2,4,6-octatriene							Sa
13877-91-3	3,7-dimethyl-1,3,6-octatriene			Br				
29714-87-2	3,7-dimethyl-1,3,?-octatriene			Br				
1051365-78-6	4,6,9-nonadecatriene			Br				
6876-07-9	isomycorene	F						
502-61-4	alpha-farnesene				Sk			
18794-84-8	beta-farnesene	F						
2153-66-4	santolina triene / 3-ethenyl-2,5-dimethylhexa-1,4-diene							Sa
123-35-3	beta-myrcene / 7-methyl-3-methylene-1,6-octadiene	F		Br				Sa
111-02-4	squalene				Sk			
3338-55-4 and 3779-61-1	beta-ocimene							Sa ²

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