

**Table 8d.** List of alkenes in human body.

CAS-number	Compound name	Formula	Faeces	Urine	Breath	Skin	Milk	Blood	Saliva	Semen
<i>NON-CYCLIC</i>										
<i>Mono alkenes</i>										
<i>n- alkenes</i>										
74-85-1	ethene	C2H4			[408]					
115-07-1	propene	C3H6	[223]		[6, 275, 322]	[410]		[106, 123]		
25167-67-3	butene ui	C4H8			[324]					
106-98-9	but-1-ene	C4H8	[223]		[6, 275, 406]					
107-01-7	2-butene	C4H8			[6, 274]					
590-18-1	2-butene, (Z)-	C4H8			[6]	[410]				
624-64-6	2-butene, (E)-	C4H8			6,	[410]				
25377-72-4	pentene ui	C5H10				[178]				
109-67-1	1-pentene	C5H10			[338, 408]	[410]				
109-68-2	2-pentene	C5H10			[6, 324, 406]					
627-20-3	2-pentene, (Z)-	C5H10			[6, 106]			[106]		
646-04-8	2-pentene, (E)-	C5H10			[6, 106]			[106]		
592-41-6	1-hexene	C6H12			[6, 57, 106, 377, 392]			[106]		
592-43-8	2-hexene	C6H12			[6]					
4050-45-7	2-hexene, (E)-	C6H12			[408]					
7688-21-3	2-hexene, (Z)-	C6H12			[408]					
592-47-2	3-hexene	C6H12			[408]					

592-76-7	1-heptene	C7H14		[6, 260, 273, 274, 284, 301, 330, 381]	[410]		
592-77-8	2-heptene	C7H14		[6]	[410]		
14686-13-6	hept-2-ene, (E)-	C7H14		[408]			[110]
6443-92-1	2-heptene, (Z)-	C7H14		[408]			
14686-14-7	hept-3-ene, (E)-	C7H14		[408]			[110]
7642-10-6	hept-3-ene, (Z)-	C7H14					[110]
111-66-0	1-octene	C8H16		[6, 61, 273, 274, 284, 293, 294, 301, 330, 342, 344, 378, 381]	[183, 410]		
111-67-1	2-octene	C8H16	[9]	[6]	[178]	[124, 130]	
13389-42-9	2-octene, (E)-	C8H16		[383, 408]			[110]
7642-04-8	2-octene, (Z)-	C8H16		[408]			[110]
592-98-3	3-octene	C8H16	[9]	[6]	[178]	[131]	
14919-01-8	3-octene, (E)-	C8H16	[9]	[6]			[110]
14850-22-7	3-octene, (Z)-	C8H16				[125]	[110]
592-99-4	4-octene	C8H16			[178]		[110]
7642-15-1	4-octene, (Z)-	C8H16		[408]			[110]
27215-95-8	nonene ui	C9H18		[272]			
124-11-8	1-nonene	C9H18		[57, 273, 284, 301, 330, 380, 381]	[410]	[125]	
2216-38-8	2-nonene	C9H18		[6, 273]			
6434-78-2	2-nonene, (E)-	C9H18		[6, 284, 301, 330, 381]			
20063-77-8	3-nonene	C9H18		[408]			
20237-46-1	3-nonene, (Z)-	C9H18		[408]			
2198-23-4	4-nonene	C9H18			[178]		

25339-53-1	decene ui	C10H20			
872-05-9	1-Decene	C10H20	[57, 273, 274, 284, 293, 301, 330, 381, 388]		[118]
20348-51-0	2-decene, (Z)-	C10H20	[408]		
19398-37-9	3-decene	C10H20	[383]		
19398-86-8	cis-3-decene	C10H20	[383]		[110]
19689-18-0	4-decene	C10H20	[408]		
19689-19-1	5-decene	C10H20	[408]	[178]	
821-95-4	1-undecene	C11H22	[6, 388]		
693-62-9	4-undecene, (E)-	C11H22	[408]		
4941-53-1	5-undecene	C11H22	[408]		
764-97-6	(E)-5-undecene	C11H22			[110]
764-96-5	5-undecene, (Z)-	C11H22	[408]		
25378-22-7	dodecene ui	C12H24			[124]
112-41-4	1-dodecene	C12H24	[61, 380, 408]	[182]	[118] [110, 111, 118, 420]
7206-13-5	2-dodecene, (E)-	C12H24	[408]		[110]
7206-26-0	2-Dodecene, (Z)-	C12H24	[277]		
2030-83-3	3-dodecene	C12H24	[383]		
7206-14-6	3-dodecene, (E)-	C12H24	[6]		[110]
7239-23-8	3-dodecene, (Z)-	C12H24	[6, 274, 275]		[110]
7206-15-7	4-dodecene, (E)-	C12H24	[408]		
7206-16-8	5-dodecene, (E)-	C12H24	[408]		
7206-17-9	6-dodecene, (E)-	C12H24	[408]		
7206-29-3	6-dodecene, (Z)-	C12H24	[408]		
25377-82-6	tridecene ui	C13H26	[383]		

2437-56-1	1-Tridecene	C13H26		[364, 395]				
41446-53-1	3-Tridecene, (Z)-	C13H26		[388]				
24949-38-0	6-tridecene	C13H26					[110]	
23051-84-5	5-tridecene, (e)-	C13H26		[274]				
41446-78-0	tetradecene	C14H28			[178, 182, 189]			
1120-36-1	1-tetradecene	C14H28					[110, 118, 420]	
41446-63-3	7-tetradecene, (E)-	C14H28		[274]			[110]	
13360-61-7	1-pentadecene	C15H30	[223]	[380]	[189]		[111]	
26952-14-7	hexadecene u.i	C16H32			[178, 189]			
112-88-9	1-octadecene	C18H36	[223]				[113]	
5557-31-3	9-octadecene	C18H36			[178]			
18435-45-5	1-nonadecene	C19H38		[61, 380]	[182]			
<i>Branched alkenes</i>								
115-11-7	2-methyl-1-propene	C4H8	[223]	[6, 106, 275]			[106]	
513-35-9	2-methyl-2-butene	C5H10		[6, 383]				
563-45-1	3-methyl-1-butene	C5H10		[6]				
563-46-2	2-methyl-1-butene	C5H10		[6, 106, 275,]			[106]	
917-92-0	3,3-dimethyl-1-butyne	C6H10		[408]				
763-29-1	2-methyl-1-pentene	C6H12		[6, 275, 405, 407]				[241]
760-20-3	3-methyl-1-pentene	C6H12		[6]				
691-37-2	4-methyl-1-pentene	C6H12		[6, 106]		[106]	[113]	[241]
625-27-4	2-methyl-2-pentene	C6H12		[408]	410,			
922-61-2	3-methyl-2-pentene	C6H12	222,	[6]				
616-12-6	3-methyl-2-pentene, (E)-	C6H12		[6]				
922-62-3	3-methyl-2-pentene, (Z)-	C6H12		[6]				
4461-48-7	4-methyl-2-pentene / 1,1-dimethyl-2-butene (cis,trans)	C6H12		287, 408,	[178]			

674-76-0	4-methyl-2-pentene, (E)-	C6H12		[408]	
691-38-3	4-methyl-2-pentene, (Z)-	C6H12		[408]	
na	Methyl-2-pentene	C6H12		[57]	
563-78-0	2,3-dimethyl-1-butene	C6H12	[9]	[6]	
558-37-2	3,3-dimethyl-1-butene	C6H12		[408]	
563-79-1	2,3-dimethyl-2-butene	C6H12	[9]	[6]	[410]
760-21-4	2-ethyl-1-butene / 3-methylenepentane	C6H12		[408]	
6094-02-6	2-methyl-1-hexene	C7H14			[178]
3404-61-3	3-methyl-1-hexene	C7H14		[6]	
3769-23-1	4-methyl-1-hexene	C7H14		[408]	
3524-73-0	5-methyl-1-hexene	C7H14		[408]	
2738-19-4	2-methyl-2-hexene	C7H14		[408]	
17618-77-8	3-methyl-2-hexene	C7H14		[408]	
3404-55-5	4-methyl-2-hexene	C7H14		[408]	
3683-19-0	4-methyl-2-hexene, (Z)-	C7H14		[408]	
3683-22-5	4-methyl-2-hexene, (E)-	C7H14		[408]	
692-24-0	2-methyl-trans-3-hexene	C7H14		[408]	
15840-60-5	2-methyl-3-hexene, (Z)-	C7H14		[408]	
3899-36-3	3-methyl-3-hexene, (E)-	C7H14		[408]	
4914-89-0	3-methyl-3-hexene, (Z)-	C7H14		[408]	
3404-65-7	5-methylhex-2-ene (cis,trans)	C7H14		[408]	
625-65-0	2,4-dimethyl-2-pentene	C7H14		[408]	[110]
24910-63-2	3,4-dimethyl-2-pentene	C7H14		[408]	
4914-91-4	3,4-dimethyl-2-pentene, (Z)-	C7H14		[408]	

4914-92-5	3,4-dimethyl-2-pentene, (E)-	C7H14	[408]		
690-08-4	4,4-dimethyl-2-pentene, (E)-	C7H14	[408]		[110]
16745-94-1	3,4-dimethyl-1-hexene	C8H116	[408]	[409]	
6975-92-4	2,5-dimethyl-1-hexene	C8H116	[408]		
7116-86-1	5,5-dimethyl-1-hexene	C8H116	[408]		
3404-78-2	2,5-dimethyl-2-hexene	C8H116	[6]		
3404-79-3	3,5-dimethyl-2-hexene	C8H116	[408]		
692-70-6	2,5-dimethyl-trans-3-hexene	C8H116	[408]		
107-39-1	2,4,4-trimethyl-1-pentene	C8H16	[406, 408]		[125]
107-40-4	2,2,4-trimethyl-3-pentene	C8H16	[408]		
565-77-5	2,3,4-trimethyl-2-pentene	C8H16	[408]		
598-96-9	3,4,4-trimethyl-2-pentene	C8H16	[408]		
39761-64-3	3,4,4-trimethyl-2-pentene, trans- / (2E)-3,4,4-trimethyl- 2-pentene / cis-3,4,4- trimethyl-2-pentene	C8H16	[408]		[125]
560-23-6	2,3,3-trimethyl-1-pentene	C8H16			[125]
17618-76-7	2-methyl-3-heptene	C8H16	[388]		[125]
16789-51-8	3-Ethyl-3-hexene	C8H16	[277]		
13151-04-7	1-Heptene, 5-methyl-	C8H16			[241]
39761-61-0	2-Hexene, 5,5-dimethyl-, (Z)-	C8H16	[274]		
3404-80-6	2-ethyl-4-methyl-1-pentene	C8H16	[408]		
1632-16-2	3-methyleneheptane / 2- Ethyl-1-hexene	C8H16	[9]	[6, 277, 380]	[110]
15870-10-7	2-methyl-1-heptene	C8H16	[408]	[178]	
4810-09-7	3-methyl-1-heptene	C8H16	[277]		[110]
13151-05-8	4-methyl-1-heptene	C8H16	[408]		

5026-76-6	6-methyl-1-heptene	C8H16	[408]	[409]	
627-97-4	2-methyl-2-heptene	C8H16	[408]		
3404-75-9	3-methyl-2-heptene	C8H16	[408]		
3404-56-6	4-methyl-2-heptene	C8H16	[408]		
66225-17-0	4-methyl-2-heptene, (E)-	C8H16	[364, 408]		[110]
73548-72-8	6-methyl-2-heptene	C8H16	[408]		
22487-87-2	5-methyl-2-heptene	C8H16	[408]		
7300-03-0	3-methyl-3-heptene	C8H16			[110]
4485-16-9	4-methyl-3-heptene	C8H16			[110]
90674-67-2	4-Ethyl-4-methyl-1-hexene	C9H18	[277]		
4316-65-8	1-Hexene, 3,5,5-trimethyl	C9H18	[277]		
26456-76-8	2-Hexene, 3,5,5-trimethyl-	C9H18	[388]		
33933-74-3	4-ethyl-3-heptene	C9H18	[277]	[178]	
3404-62-4	5-Methyl-2-hexene		[277]		
33718-03-5	2,7-dimethyl-1-octene	C10H20	[277]	[178]	
56728-11-1	1-Octene, 3,4-dimethyl	C10H20	[277]		
53966-51-1	3-Octene, 4-ethyl	C10H20	[277]		
19781-31-8	3-Ethyl-3-octene	C10H20	[277]		
74630-07-2	Octane, 3-methyl-6-methylene / 2-ethyl-5-methyl-1-heptene	C10H20	[277]		
868-46-2	3,4-Diethyl-3-hexene	C10H20	[277]		
51655-64-2	Nonane, 3-methylene / 2-ethyl-1-octene	C10H20	[277, 344]		
53966-52-2	4-ethyl-2-Octene	C10H20	[277]		
19780-60-0	3-Ethyl-2-methyl-1-heptene	C10H20	[277]		

13151-27-4	2-methyl-1-decene	C11H22		[408]	
13151-29-6	4-methyl-1-decene	C11H22		[408]	
23381-92-2	2-methyl-2-decene	C11H22		[408]	
74630-30-1	4-methyl-2-decene, (Z)-	C11H22		[408]	
na	3-methyl-2-Decene	C11H22		[277]	
55170-80-4	2,4-dimethyl-1-decene	C12H24		[408]	
74421-03-7	2,4-dimethyl-2-decene	C12H24		[408]	
55499-02-0	2,2-dimethyl-3-decene, (E)-	C12H24		[366, 408]	
74630-39-0	4-methyl-1-undecene	C12H24		[277, 408]	
74630-42-5	7-methyl-1-undecene	C12H24		[408]	
74630-40-3	8-methyl-1-undecene	C12H24	[253]	[277, 408]	
56888-88-1	2-methyl-2-undecene	C12H24			[178]
74630-45-8	9-methyl-2-undecene, (Z)-	C12H24		[408]	
61142-40-3	4-methyl-4-undecene	C12H24		[408]	[178]
74630-57-2	4-methyl-4-undecene, (Z)-	C12H24		[408]	
1233691-10-5	3-methyl-5-undecene	C12H24			[178]
74630-64-1	3-methyl-5-undecene, (Z)-	C12H24		[408]	
31613-73-7	5-methyl-5-undecene	C12H24		[408]	
83687-45-0	6-methyl-5-undecene	C12H24		[408]	
39546-85-5	8-methyl-5-undecene, (E)-	C12H24		[408]	
116164-06-8	2,2,3,5,6-pentamethyl-3-heptene	C12H24		[408]	
74630-43-6	6-methyl-2-Undecene	C12H24		[277]	
na	3-Undecene, 8-methyl	C12H24		[277]	
71138-64-2	3-Methyleneundecane / 2-ethyl-1-decene	C12H24		[344]	
55771-40-9	2,4,6-Trimethyl-1-nonene	C12H24		[369]	
41851-94-9	4-Undecene, 5-methyl-, (E)-	C12H24		[388]	
96533-16-3	methyl dodecene u.i	C13H26			[178]
55103-82-7	2-methyl-2-dodecene	C13H26			[178]



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2437-93-6	3,7,11,15-tetramethyl-2-hexadecene	C20H40	[223]		
ui	trimethyl-3-methylenehexadecane / ethyltrimethyl-1-pentadecene	C20H40			[178]
<i>Dienes</i>					
463-49-0	1,2-propadiene	C3H4		[408]	
106-99-0	1,3-butadiene	C4H6		[6, 106, 324, 378, 400, 406]	[106]
590-19-2	1,2-butadiene	C4H6		[6, 400]	
598-25-4	1,1-dimethylallene	C5H8		[408]	
78-79-5	isoprene / 2-Methyl-1,3-butadiene	C5H8		[6, 55, 57, 106, 134, 260, 264, 268, 273, 278, 279, 284, 286, 288, 293, 298, 299, 301, 305, 307-309, 311, 315, 316, 320, 324, 330, 333, 335, 338, 340, 341, 345, 347, 353, 357, 358, 363, 364, 368, 369-372, 376-378, 381, 385, 392-394, 403-407]	[410] [106, 134, 417]

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591-95-7	1,2-pentadiene	C5H8		[261, 294, 408]	
504-60-9	1,3-pentadiene	C5H8	[9]	[6, 364, 406]	
2004-70-8	1,3-pentadiene, (E)-	C5H8		[106, 408]	[106]
1574-41-0	1,3-pentadiene, (Z)- / isoprene	C5H8		[106, 265, 408]	[106]
591-93-5	1,4-pentadiene	C5H8	[222]	[6]	
513-81-5	2,3-dimethyl-1,3-butadiene	C6H10		[408]	
3404-63-5	2-ethyl-1,3-butadiene	C6H10		[408]	
592-48-3	1,3-hexadiene, cis+trans ui	C6H10	[202]	[408]	
592-45-0	1,4-hexadiene	C6H10		[408]	
7319-00-8	1,4-hexadiene, (4E)-	C6H10		[6]	
7318-67-4	1,4-hexadiene, (Z)-	C6H10		[408]	
592-46-1	2,4-hexadiene ui	C6H10		[6, 57, 324]	
5194-51-4	2,4-hexadiene, (E,E)-	C6H10		[6]	
5194-50-3	2,4-hexadiene, (E,Z)-	C6H10		[106, 408]	[106]
926-54-5	2-methyl-1,3-pentadiene, (E)-	C6H10		[6]	[410]
2787-43-1	3-methyl-1,3-pentadiene, (E)-	C6H10		[408]	
2787-45-3	3-methyl-1,3-pentadiene, (Z)-	C6H10		[6]	
1115-08-8	3-methyl-1,4-pentadiene	C6H10		[6]	
926-56-7	4-methyl-1,3-pentadiene	C6H10		[6, 57]	
1501-60-6	1,3-Pentadiene, 2-methyl-, (Z)-	C6H10			[410]
n/a	dimethylpentadiene u.i.	C7H12			[178]
1113-56-0	2,3-dimethyl-1,3-pentadiene	C7H12		[6]	
1000-86-8	2,4-dimethyl-1,3-pentadiene	C7H12		[6]	
1000-87-9	2,4-dimethyl-2,3-pentadiene	C7H12		[408]	

1541-23-7	1,5-heptadiene	C7H12		[408]	
28823-41-8	2-methyl-2,4-hexadiene	C7H12		[408]	
6108-96-9	2-methyl-1,4-hexadiene, (4E)-	C7H12		[6]	
763-88-2	5-methyl-1,4-hexadiene	C7H12		[408]	
29253-64-3	2,5-dimethyl-1,3-hexadiene	C8H14		[408]	
1515-79-3	5,5-dimethyl-1,3-hexadiene	C8H14		[408]	
764-13-6	2,5-dimethyl-2,4-hexadiene / 1,1,4,4-tetramethyl-1,3- butadiene	C8H14		[408]	[110]
2080-89-9	3-ethyl-1,4-hexadiene	C8H14			[178]
13643-06-6	6-methyl-1,6-heptadiene	C8H14		[6]	
13857-55-1	4-methyl-1,4-heptadiene, (4E)-	C8H14		[6]	
7270-50-0	6-methyl-1,5-heptadiene	C8H14		[6]	
39491-65-1	E-1,3-octadiene	C8H14			[110]
3710-30-3	Z-1,3-octadiene	C8H14			[110]
13643-08-8	2,4-octadiene	C8H14			[110]
1002-33-1	1,3-octadiene	C8H14			[125]
998-94-7	4-Methyl-1,5-Heptadiene	C8H14			[409]
74779-65-0	2,3-dimethyl-1,3-heptadiene	C9H16		[408]	
6709-39-3	2,6-dimethyl-1,5-heptadiene	C9H16		[6]	
74753-00-7	1,4-Hexadiene, 3,3,5- trimethyl-	C9H16			[409]
821-74-9	4,5-Nonadiene	C9H16		[388]	
40195-09-3	2,7-dimethyl-1,6-octadiene	C10H18		[6]	
2436-90-0	3,7-dimethyl-1,6-octadiene (S)-	C10H18	[9]		[110]
2792-39-4	2,6-dimethyl 2,6-octadiene	C10H18		[57, 408]	
2492-22-0	2,6-dimethyl-2,6-octadiene, (6Z)-	C10H18		[6]	
2609-23-6	2,6-dimethyl-2,6-octadiene, (6E)-	C10H18		[6]	

16736-42-8	2,6-dimethyl-2,7-octadiene	C10H18			[57, 408]		
28980-73-6	2,7-dimethyl-3,5-octadiene, (Z,Z)-	C10H18	[9]				
35387-63-4	2,5,5-trimethyl-2,6-heptadiene	C10H18			[6]		
ui	trimethyl-1,5-heptadiene	C10H18				[178]	
74630-29-8	3,3,5-trimethyl-1,5-heptadiene	C10H18			[408]		
61215-70-1	undecadiene	C11H20				[178]	
74685-27-1	(E,Z)-2,4-dodecadiene	C12H22					[110]
34266-16-5	2,4-nonadiene	C19H16			[178]		
<b>TRIENES</b>							
2612-46-6	1,3,5-hexatriene, (Z)-	C6H8			[344, 408]		
17679-93-5	1,3,5-heptatriene, (E,E)-	C7H10			[408]		
na	2,6-Dimethyl-1,3,5-heptatriene / 1,6-Dimethyl-1,3,5-heptatriene	C9H14			[57]		
ui	decatriene ui	C10H16	[9]				
673-84-7 (3016-19-1 / 7216-56-0)	2,6-dimethyl-2,4,6-octatriene / alloocimene	C10H16					[110]
13877-91-3	3,7-dimethyl-1,3,6-octatriene / beta-ocimene	C10H16		[196]	[403, 408]		[111]
29714-87-2	3,7-dimethyl-1,3,?-octatriene	C10H16			[6, 403, 404]		
6876-07-9	isomycorene	C10H16	[9]				
123-35-3	beta-myrcene / 7-methyl-3-methylene-1,6-octadiene	C10H16	[9, 222]	[196]	[341, 408]	[163]	[110, 111]
3338-55-4	cis-beta-ocimene / (3Z)-3,7-dimethyl-1,3,6-octatriene / cis $\beta$ -ocymene	C10H16		[196]			[110, 111]

3779-61-1	trans-beta-ocimene / / (3E)-3,7-dimethyl-1,3,6-octatriene	C10H16			[110]
2153-66-4	santolina triene / 3-ethenyl-2,5-dimethylhexa-1,4-diene	C10H16			[110]
18383-70-5 / 29548-02-5	2,5,5-trimethyl-1,3,6-heptatriene	C10H16			[110]
68702-20-5	2,7-dimethyl-5-(1-methylethenyl)-1,8-nonadiene	C14H24			[110]
<b>TETRA-,PENTA-, HEXAENES</b>					
460-01-5	2,6-dimethyl-1,3,5,7-octatetraene, (EE)-	C10H14			[110]
502-61-4	alpha-farnesene	C15H24		[182]	[420]
18794-84-8	beta-farnesene	C15H24	[9]		
ui	sesquiterpene ui	C15H24		[182]	[418]
111-02-4	squalene	C30H50	[253]	[176, 178, 189]	[419]
<b>ALKYNES</b>					
74-99-7	1-propyne	C3H4		[6, 406]	[126]
107-00-6	1-butyne	C4H6		[6]	
689-97-4	1-buten-3-yne	C4H4		[6, 406]	
503-17-3	2-butyne	C4H6		[6]	
627-21-4	pent-2-yne / 1-ethyl-2-methylacetylene	C5H8		[408]	
598-23-2	3-methyl-1-butyne	C5H8	[194]		
78-80-8	2-methyl-1-buten-3-yne	C5H6		[408]	
1574-40-9	3-penten-1-yne, (Z)-	C5H6		[408]	
2004-69-5	3-penten-1-yne, (E)-	C5H6		[408]	
2206-23-7	2-penten-4-yne	C5H6		[408]	
21020-27-9	4-methyl-2-pentyne	C6H10		[408]	

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7154-75-8	4-methyl-1-pentyne	C6H10	[408]
1574-33-0	3-methyl-3-penten-1-yne	C6H8	[408]
10420-90-3	1,3-Hexadien-5-yne	C6H6	[369]
628-71-7	1-heptyne	C7H12	[408]
999-78-0	4,4-dimethyl-2-pentyne	C7H12	[408]
2586-89-2	hept-3-yne / 1-ethyl-2-propylacetylene	C7H12	[408]
36566-80-0	2-methylhex-3-yne / 1-ethyl-2-isopropylacetylene	C7H12	[408]
2203-80-7	5-methyl-1-hexyne	C7H12	[408]
61228-09-9	5-methyl-3-heptyne	C8H14	[6]
61227-87-0	2,5-Octadiyne, 4,4-diethyl-	C12H18	[369]
na	6-t-butyl-2,2,9,9-tetramethyl-3,5-decadien-7-yne	C18H30	[133]
na	6-t-butyl-2,2,9,9-tetramethyl-3,5-decadien-7-yne	C18H30	[291]
na	3,5-Decadien-7-yne, 6-t-butyl-2,2,9,9-tetramethy	C18H30	[304]

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