

Table 8c. List of branched hydrocarbons in human body.

CAS-number	Compound name	Formula	Faeces	Urine	Breath	Skin	Milk	Blood	Saliva	Semen
75-28-5	2-methylpropane / isobutane	C4H10			[6, 106, 275, 324, 406]			[106]	[117]	
78-78-4	2-methylbutane / isopentane	C5H12			[6, 106, 260, 261, 106, 275, 294, 311, 378, 404]			[106]		
463-82-1	2,2-Dimethylpropane / neopentane	C5H12			[377]					
75-83-2	2,2-dimethylbutane	C6H14			[6, 275, 369]	[409]				
79-29-8	2,3-dimethylbutane	C6H14			[6, 106, 275]			[106]		
107-83-5	2-methylpentane	C6H14	[9]		[6, 106, 261, 275, 287, 292, 294, 311, 320, 332, 378, 405,406]			[106, 126, 140]	[110]	[241]
96-14-0	3-methylpentane	C6H14	[222]		[6, 261, 296, 311, 320, 324, 332, 353, 359, 369, 406]			[126, 140]	[110]	
590-35-2	2,2-dimethylpentane	C7H16			[408]					

565-59-3	2,3-dimethylpentane	C7H16		[296, 320, 408]		
108-08-7	2,4-dimethylpentane	C7H16		[287, 408]		[126]
562-49-2	3,3-dimethylpentane	C7H16		[369]		
617-78-7	3-ethylpentane	C7H16		[408]		
589-34-4	3-methylhexane	C7H16		[6, 57, 265, 273, 274, 275, 284, 301, 320, 330, 378, 381, 405]		[125] [241]
591-76-4	2-methylhexane	C7H16		[6, 106, 275, 287, 320, 405]		[106]
464-06-2	2,2,3-trimethylbutane	C7H16	[9]			
590-73-8	2,2-dimethylhexane	C8H18		[265, 277, 408]		
584-94-1	2,3-dimethylhexane	C8H18		[369, 405, 408]		
589-43-5	2,4-dimethylhexane	C8H18		[6, 274, 289, 392, 396, 397]	[178]	[167]
592-13-2	2,5-dimethylhexane	C8H18		[408]		
563-16-6	3,3-dimethylhexane	C8H18		[6]		[241]
619-99-8	3-ethylhexane	C8H18		[408]		[241]
592-27-8	2-methylheptane	C8H18		[6, 265]		[110]
589-81-1	3-methylheptane	C8H18	[9]	[277, 305, 341, 344, 408]		[110]
589-53-7	4-methylheptane	C8H18	[202]	[6, 275]		[241]
594-82-1	2,2,3,3-tetramethylbutane	C8H18		[408]		[125]

540-84-1	2,2,4-trimethylpentane / isooctane	C8H18			[298, 378, 408]	[140]	
560-21-4	2,3,3-trimethylpentane	C8H18			[265, 408]		[241]
564-02-3	2,2,3-trimethylpentane	C8H18			[369, 408]		
565-75-3	2,3,4-trimethylpentane	C8H18			[6, 275]	[167]	[241]
609-26-7	2-methyl-3-ethylpentane / 3- Ethyl-2-methyl-pentane	C8H8			[408]	[167]	
19549-87-2	2,4-dimethyl-1-heptene	C9H18			[6, 265, 275, 277, 344]	[178]	[241]
1071-26-7	2,2-dimethylheptane	C9H20			[408]		
3074-71-3	2,3-dimethylheptane	C9H20			[6, 277, 311, 344, 369]		
2213-23-2	2,4-dimethylheptane	C9H20	[9]	[255]	[6, 275, 277, 282, 287, 296, 311, 359, 396, 405, 407]		
2216-30-0	2,5-dimethylheptane	C9H20			[408]		
1072-05-5	2,6-dimethylheptane	C9H20			[403, 408]		
926-82-9	3,5-dimethylheptane	C9H20			[408]		
3221-61-2	2-methyloctane	C9H20			[408]		
2216-33-3	3-methyloctane	C9H20			[6, 275]		
2216-34-4	4-methyloctane	C9H20	[9]		[6, 106, 261, 265, 275, 318, 322, 344, 403]	[106]	[241]
1069-53-0	2,3,5-trimethylhexane	C9H20			[6, 300]		[241]
16747-26-5	2,2,4-trimethylhexane	C9H20			[408]	[167]	
3522-94-9	2,2,5-trimethylhexane	C9H20			[408]		[241]
921-47-1	2,3,4-trimethylhexane	C9H20			[369, 408]		[241]
16747-30-1	2,4,4-trimethylhexane	C9H20			[298]		

922-28-1	Heptane, 3,4-dimethyl	C9H20		[277]	
16747-38-9	Pentane, 2,3,3,4-tetramethyl	C9H20		[277]	
1067-20-5	3,3-Diethylpentane	C9H20		[344]	
1186-53-4	Pentane, 2,2,3,4-tetramethyl-	C9H20		[369]	
16747-25-4	Hexane, 2,2,3-trimethyl-	C9H20		[369]	
16747-32-3	Pentane, 3-ethyl-2,2-dimethyl-	C9H20			[241]
15869-86-0	4-ethyloctane	C10C22		[408]	
5881-17-4	3-ethyloctane	C10C22		[408]	
15869-89-3	2,5-dimethyloctane	C10H22		[408]	
2051-30-1	2,6-dimethyloctane	C10H22		[6, 344]	
1072-16-8	2,7-dimethyloctane	C10H22		[377, 408]	
15869-93-9	3,5-dimethyloctane	C10H22		[369, 408]	
15869-94-0	3,6-dimethyloctane	C10H22		[408]	
14676-29-0	2-methyl-3-ethylheptane	C10H22		[344, 408]	[111]
871-83-0	2-methylnonane	C10H22	[9]	[6, 265]	
5911-04-6	3-methylnonane	C10H22		[265, 364, 396, 397, 408]	
17301-94-9	4-methylnonane	C10H22		[6]	
15869-85-9	5-methylnonane	C10H22		[408]	
2613-61-8	2,4,6-trimethylheptane	C10H22		[408]	
52896-95-4	2,3,4-trimethylheptane	C10H22		[277, 296, 408]	
7154-80-5	3,3,5-trimethylheptane	C10H22			[110]
14720-74-2	2,2,4-trimethylheptane	C10H22		[287]	
17302-01-1	3-Ethyl-3-methylheptane	C10H22		[344, 369]	
7146-60-3	2,3-Dimethyloctane	C10H22		[344]	
17302-27-1	2,5-dimethylnonane	C11H24		[277, 344, 408]	
17302-28-2	2,6-dimethylnonane	C11H24		[6, 265]	

17302-23-7	4,5-dimethylnonane	C11H24		[277, 408]		[241]
62016-18-6	5-ethyl-2-methyloctane	C11H24		[408]		
62016-19-7	6-ethyl-2-methyloctane	C11H24	[9]	[265, 408]		
13151-34-3	2-ethylnonane / 3-methyldecane	C11H24		[277, 408]		
6975-98-0	2-methyldecane	C11H24		[408]		
2847-72-5	4-methyldecane	C11H24		[6, 265]	[409]	
13151-35-4	5-methyldecane	C11H24		[265, 408]		
62016-14-2	2,5,6-trimethyloctane	C11H24		[408]		
62016-28-8	2,2,6-trimethyloctane	C11H24		[408]		
62016-33-5	2,3,6-trimethyloctane	C11H24		[277, 287, 408]		
62016-37-9	2,4,6-trimethyloctane	C11H24		[408]		[125]
6975-98-0	2-methyldecane / dimethylnonane	C11H24		[342]		
2884-06-2	Nonane, 2,3-dimethyl	C11H24		[364]		
17301-29-0	Undecane, 3,7-dimethyl-	C11H28		[342]		
17312-44-6	2,3-dimethyldecane	C12H26		[408]		
2801-84-5	2,4-dimethyldecane	C12H26		[408]		[111]
13150-81-7	2,6-dimethyldecane	C12H26		[6]		
17312-45-7	3,4-dimethyldecane	C12H26		[408]		
17312-53-7	3,6-dimethyldecane	C12H26		[6]		
17312-54-8	3,7-dimethyldecane	C12H26		[265, 369, 408]		
17312-55-9	3,8-dimethyldecane	C12H26		[408]		
1636-43-7	5,6-dimethyldecane	C12H26		[6]		
1636-44-8	4-ethyldecane	C12H26		[408]		
62183-55-5	3-ethyl-2,7-dimethyloctane	C12H26		[408]		
7045-71-8	2-methylundecane	C12H26		[6]		

1002-43-3	3-methylundecane	C12H26		[277, 344, 396, 408]		
2980-69-0	4-methylundecane	C12H26	[9]	[6, 261, 369]		
1632-70-8	5-methylundecane	C12H26		[277, 408]		
62183-79-3	2,2,4,4-tetramethyloctane	C12H26		[57, 298, 344]		
52670-34-5	2,3,6,7-tetramethyloctane	C12H26	[9]	[369, 408]		[241]
62199-06-8	Heptane, 5-ethyl-2,2,3-trimethyl	C12H26		[277]		
13475-82-6	2,2,4,6,6-Pentamethylheptane / Isododecane	C12H26		[57, 265, 277, 369]		[241]
17302-33-9	Undecane, 6-methyl	C12H26		[277]		
1632-71-9	4-Ethyl-5-methyl-nonane	C12H26		[289]		
17302-37-3	2,2-Dimethyldecane	C12H26		[291, 304, 344]		[241]
1071-31-4	2,2,7,7-Tetramethyloctane	C12H26				[241]
17301-32-5	4,7-dimethylundecane	C13H28	[9]	[403]	[409]	
17312-83-3	5,7-dimethylundecane	C13H28		[408]		
62108-25-2	2,6,7-trimethyldecane	C13H28		[408]		
62108-26-3	2,6,8-trimethyldecane	C13H28		[408]		
62108-27-4	2,4,6-trimethyldecane	C13H28	[9]	[403, 408]		
62108-22-9	Decane, 2,5,9-trimethyl-	C13H28		[369]	[409]	
62338-09-4	Decane, 2,2,3-trimethyl	C13H28		[277]		
17312-75-3	Nonane, 5-methyl-5-propyl	C13H28		[277]		
17312-63-9	Nonane, 5-butyl	C13H28		[277, 294]		
17301-31-4	Undecane, 3,9-dimethyl	C13H28		[277]		
62185-53-9	Nonane, 5-(2-methyl-)propyl-	C13H28		[292]		
17301-30-3	Undecane, 3,8-dimethyl-	C13H28		[360]		
17312-77-5	2,3-dimethylundecane	C13H28		[344]		
17301-28-9	3,6-Dimethylundecane	C13h28		[344]		

17301-24-5	2,7-Dimethylundecane	C13H28		[344]		
17301-23-4	Undecane, 2,6-dimethyl-	C13H28		[265]		
62238-01-1	Decane, 2,2,8-trimethyl-	C13H28		[265]		
62108-32-1	Heptane, 2,2,3,4,6,6-hexamethyl-	C13H28				[241]
62108-31-0	Heptane, 4-ethyl-2,2,6,6-tetramethyl-	C13H28				[241]
61141-72-8	4,6-dimethyldodecane	C14H30				[111]
6418-41-3	3-methyltridecane	C14H30			[125]	
13287-21-3	Tridecane, 6-methyl	C14H30		[277, 344]		
26730-12-1	Tridecane, 4-methyl-	C14H30				[241]
ui	propyldodecane	C15h32			[182]	
31295-56-4	2,6,11-trimethyldodecane	C15H32	[9]	[292]		
3891-98-3	Dodecane,2,6,10-trimethyl-	C15H32		[287]	[409]	
25117-32-2	Tetradecane, 5-methyl-	C15H32		[364]		
74645-98-0	Dodecane, 2,7,10-trimethyl-	C15H32		[265]		
2801-87-8	4-methylpentadecane	C16H34		[306]	[182]	[420]
22306-28-1	8-Methylpentadecane	C16H34		[306]		
6165-40-8	7-Methylpentadecane	C16H34		[306]		
10105-38-1	6-Methylpentadecane	C16H34		[306]		
25117-33-3	5-Methylpentadecane	C16H34		[306]		
1560-93-6	2-Methylpentadecane	C16H34		[306]		
2882-96-4	3-Methylpentadecane	C16H34		[306]		
4390-04-9	Nonane,2,2,4,4,6,8,8-heptomethyl-	C16H34		[364]		
127204-12-0	Dodecane, 2,2,11,11-tetramethyl-	C16H34				[241]
119209-20-0	Decane, 5,6-dipropyl-	C16H4		[364]		

26730-21-2	8-Methylhexadecane	C17H36	[306]		
26730-20-1	7-Methylhexadecane	C17H36	[306]		
26730-19-8	6-Methylhexadecane	C17H36	[306]		
25117-34-4	5-Methylhexadecane	C17H36	[306]		
25117-26-4	4-Methylhexadecane	C17H36	[306]		
1560-92-5	2-Methylhexadecane	C17H36	[306]		
6418-43-5	3-Methylhexadecane	C17H36	[306]		
158274-95-4	methyl heptadecane	C17H38		[178]	
13287-23-5	8-methylheptadecane	C17H38	[364, 374]		
1560-89-0	2-Methylheptadecane	C18H38	[306, 388]		
6418-44-6	3-Methylheptadecane	C18H38	[306]		
3892-00-0	2,6,10-Trimethylpentadecane	C18H38	[344]		
6561-44-0	3-methyloctadecane	C19H40		[182]	[182]
1921-70-6	Pentadecane, 2,6,10,14-tetramethyl- / Norphytane	C19H40	[374]		
56862-62-5	10-Methylnonadecane	C20H4	[364]		
6418-45-7	3-methylnonadecane	C20H42		[182]	
638-36-8	Hexadecane, 2,6,10,14-tetramethyl-	C20H42		[409]	
ui	triacontene, branched	C20H60		[178]	
13475-75-7	8-hexylpentadecane	C21H44	[292]		
55282-11-6	11-Pentan-3-ylheneicosane	C26H54	[395]		
1560-98-1	2-Methyloctacosane	C29H60	[289, 395]		
