

**Table 8e.** List of n-alkanes in human body.

CAS-number	Compound name	Formula	Faeces	Urine	Breath	Skin	Milk	Blood	Saliva	Semen
74-82-8	methane	CH <sub>4</sub>			[408]					
74-84-0	ethane	C <sub>2</sub> H <sub>6</sub>			[273, 284, 301, 330, 378, 381, 408]					
74-98-6	propane	C <sub>3</sub> H <sub>8</sub>			[6, 264, 404, 406]			[123]	[110]	
106-97-8	n-butane	C <sub>4</sub> H <sub>10</sub>			[6, 106, 260, 264, 275, 404, 406, 407]			[106, 123]		
ui	butane ui	C <sub>4</sub> H <sub>10</sub>			[55, 392]					
109-66-0	pentane	C <sub>5</sub> H <sub>12</sub>	[9, 247]		[6, 60, 106, 264, 273, 278, 284, 288, 301, 311, 330, 332, 333, 345, 347, 367, 378, 381, 404, 406]	[410]		[106, 417]		[241]
110-54-3	hexane	C <sub>6</sub> H <sub>14</sub>	[9, 222]	[202, 258]	[6, 57, 60, 106, 264, 265, 275, 311, 320, 332, 340, 358, 367, 404-406]	[178]		[106, 123, 125, 126, 141, 140]	[110]	[241]

142-82-5	n-heptane	C7H16			[6, 57, 265, 275, 277, 294, 296, 311, 332, 340, 351, 368, 404]	[178, 410]		[124, 141]		
ui	heptane ui	C7H16			[358]				[110]	
ui	octane ui	C8H18			[392]					
111-65-9	octane	C8H18	[9]		[6, 57, 106, 262, 275, 287, 294, 324, 332, 340, 358]	[178, 410]	[167]	[106, 124]	[110, 111, 422]	[241]
111-84-2	n-nonane	C9H20	[247, 248]		[6, 57, 269, 275, 340, 344, 358, 364, 406]	[178, 185, 189, 192, 409, 410]		[125]		
ui	nonane ui	C9H20			[353]				[110]	
124-18-5	decane	C10H22	[247]		[6, 106, 57, 265, 275, 306, 311, 324, 340, 344, 358, 359, 364, 378, 380, 388, 394, 396, 397, 406]	[178, 183, 189, 409]	[167]	[106, 124, 125]		
ui	decane ui	C10H22	[9]				[156]			
1120-21-4	undecane / n-Hendecane	C11H24	[9, 247]	[254]	[6, 118, 106, 265, 277, 294, 311, 342, 344, 367, 378, 380, 384, 403]	[183, 185, 189, 190, 192, 409]		[106, 118, 125]	[110, 116]	
ui	dodecane ui	C12H26			[6, 408]					

112-40-3	dodecane	C12H26	[9, 223]		[6, 57, 118, 265, 275, 277, 282, 291, 294, 306, 311, 320, 332, 342, 364, 374, 378, 384, 394]	[182, 183, 185, 189, 192, 409]	[156, 167]	[118, 124]	[110, 420]
629-50-5	tridecane	C13H28	[9, 223]		[57, 118, 265, 277, 292, 369, 378, 380, 384]	[182, 185, 192, 189, 409]	[156]	[118, 124]	[111, 420]
629-59-4	tetradecane	C14H30	[9, 223, 247]	[193, 194]	[57, 265, 300, 320, 354, 367, 379, 380]	[178, 182, 185, 189, 192]	[156, 167]	[118, 125]	[110, 112, 113, 118, 420, 421]
629-62-9	pentadecane	C15H32	[223]		[306, 324, 354, 374, 388]	[178, 182, 189, 190, 409]	[156]		[111, 113, 420]
544-76-3	hexadecane	C16H34	[9, 223]		[295, 306, 342, 360, 366, 377, 388, 395, 403]	[178, 182, 185, 190, 189]		[118]	[112, 113, 420]
629-78-7	heptadecane	C17H36	[223]		[298, 306, 343, 354, 364, 395]	[178, 182, 185, 189]	[156]	[118, 125]	[112, 418, 420, 422]
593-45-3	octadecane	C18H38	[223]		[306, 366, 403]	[178, 182, 409]	[156]	[118]	[420]
629-92-5	nonadecane	C19H40	[9]		[260, 277, 292, 369, 374, 380]	[182, 409]		[124]	[113, 182, 420]
112-95-8	eicosane	C20H42	[9]		[292, 366, 388, 395]	[182, 409]	[156]		[420]
629-94-7	heneicosane	C21H44			[374]	[182, 178]			[420]

629-97-0	docosane	C22H46		[182, 178]		[182, 420]
638-67-5	tricosane	C23H48		[182, 178]		[419]
646-31-1	tetracosane	C24H50	[374]	[182, 178]		[419]
629-99-2	pentacosane	C25H52		[178]		
630-01-3	hexacosane	C26H54				[419]
593-49-7	heptacosane	C27H56	[277]		[125]	[419]
630-02-4	octacosane	C28H58	[277]			[419]
630-03-5	nonacosane	C29H60				[419]
630-04-6	Hentriacontane	C31H64	[395]			
14167-59-0	Tetratriacontane	C34H70	[395]			