

Pure alkanes properties

@wikipedia

Class of hydrocarbon	IUPAC name	Common name	#C	#H	Molweight	Melting point	Boiling point	Density@ 20°C*	Flash point	Autoignition temp
					g/mol	°C	°C	g/ml	°C	°C
N-alkane	Methane		1	4	16.04	-183	-162	-	-135	595
N-alkane	Ethane		2	6	30.07	-183	-89	-	-135	515
N-alkane	Propane		3	8	44.09	-188	-42	0.498	-104	470
N-alkane	N-butane	Butane	4	10	58.12	-138	-1	0.577	-60	365
N-alkane	N-pentane	Pentane	5	12	72.15	-130	36	0.63	-49	260
N-alkane	N-hexane	Hexane	6	14	86.17	-95	69	0.664	<-20	230
N-alkane	N-heptane	Heptane	7	16	100.2	-91	98	0.683	-7	220
N-alkane	N-octane	Octane	8	18	114.22	-57	126	0.702	12	205
N-alkane	N-nonane	Nonane	9	20	128.25	-53	151	0.719	31	205
N-alkane	N-decane	Decane	10	22	142.28	-30	174	0.73	46	200
N-alkane	N-undecane		11	24	156.3	-26	196	0.74	61	195
N-alkane	N-dodecane		12	26	170.33	-10	216	0.75	80	200
N-alkane	N-tridecane		13	28	184.35	-5	235	0.756		
N-alkane	N-tetradecane		14	30	198.38	6	254	0.76		
N-alkane	N-pentadecane		15	32	212.41	15	270	0.769		
N-alkane	N-hexadecane		16	34	226.43	18	287	0.773		
N-alkane	N-heptadecane		17	36	240.46	22	303	0.778		
N-alkane	N-octadecane		18	38	254.48	28	316	0.77728		
N-alkane	N-nonadecane		19	40	268.51	32	330	0.785		
N-alkane	N-eicosane		20	42	282.54	37	344	0.789	187	
N-alkane	N-heneicosane		21	44	296.56	40	359	0.792		
N-alkane	N-docosane		22	46	310.59	44	369	0.794	211	
N-alkane	N-tricosane		23	48	324.61	47	381	0.77948		
N-alkane	N-tetracosane		24	50	338.64	50	391	0.799		

N-alkane	N-pentacosane	25	52	352.67	53	402	0.801		
N-alkane	N-hexacosane	26	54	366.69	56	415	0.7786		
N-alkane	N-heptacosane	27	56	380.72	59	422	0.7806	269	
N-alkane	N-octacosane	28	58	394.74	61	435	0.806		
N-alkane	N-nonacosane	29	60	408.77	64	443	0.808		
N-alkane	N-triacontane	30	62	422.8	66	451	0.81		
N-alkane	N-hentriacontane	31	64	436.82	68	458	0.78168		
N-alkane	N-dotriacontane	32	66	450.85	70	470	0.812		
N-alkane	N-tritriacontane	33	68	464.87	71				
N-alkane	N-pentatriacontane	35	72	492.93	74	489	0.816		
N-alkane	N-tetracontane	40	82	563.06	81	522	0.81725		
N-alkane	N-pentacontane	50	102	703.32	92	575			
N-alkane	N-hexacontane	60	122	843.58	100	625			
N-alkane	N-heptacontane	70	142	983.84	106	647			
N-alkane	N-octacontane	80	162	1124.1	112	672			
N-alkane	N-nonacontane	90	182	1264.4		~700			
N-alkane	N-hectane	100	202	1404.6	115	~720			

See Also

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[[Mixture](#) / [Mixture composition](#)]

[[Pure substance](#)] [[Mole fraction](#)]

References

https://www.engineeringtoolbox.com/hydrocarbon-boiling-melting-flash-autoignition-point-density-gravity-molweight-d_1966.html

