

Alkanes

@wikipedia

A specific group of hydrocarbons with chemical formula C_nH_{2n+2} and with carbon (C) and hydrogen (H) atoms arranged in a tree structure in which all the carbon-carbon bonds are single.

Alkane	Formula	Boiling point	Melting point	Density (at 20 °C)	Isomers	Molecular Weight	Critical Pressure (P_c)	Critical Temperature (T_c)
		°C	°C	kg/m³		g/mol	psi	°Rankine
Methane	CH_4	-162	182	0.656 (gas)	1	16.04	673	344
Ethane	C_2H_6	89	183	1.26 (gas)	1	30.07	709	550
Propane	C_3H_8	42	188	2.01 (gas)	1	44.09	618	666
Butane	C_4H_{10}	0	138	2.48 (gas)	2	58.12	551	766
Pentane	C_5H_{12}	36	130	626 (liquid)	3	72.15	485	847
Hexane	C_6H_{14}	69	95	659 (liquid)	5	86.17	434	915
Heptane	C_7H_{16}	98	91	684 (liquid)	9	100.2	397	973
Octane	C_8H_{18}	126	57	703 (liquid)	18	114.2	361	1024
Nonane	C_9H_{20}	151	54	718 (liquid)	35			
Decane	$C_{10}H_{22}$	174	30	730 (liquid)	75			
Undecane	$C_{11}H_{24}$	196	26	740 (liquid)	159			
Dodecane	$C_{12}H_{26}$	216	10	749 (liquid)	355			
Tridecane	$C_{13}H_{28}$	235	-5.4	756 (liquid)	802			
Tetradecane	$C_{14}H_{30}$	253	5.9	763 (liquid)	1858			
Pentadecane	$C_{15}H_{32}$	270	10	769 (liquid)				
Hexadecane	$C_{16}H_{34}$	287	18	773 (liquid)				
Heptadecane	$C_{17}H_{36}$	303	22	777 (solid)				
Octadecane	$C_{18}H_{38}$	317	28	781 (solid)				
Nonadecane	$C_{19}H_{40}$	330	32	785 (solid)				

Icosane	$C_{20}H_{42}$	343	37	789 (solid)				
Tricontane	$C_{30}H_{62}$	450	66	810 (solid)				
Tetracontane	$C_{40}H_{82}$	525	82	817 (solid)				
Pentacosane	$C_{50}H_{102}$	575	91	824 (solid)				
Hexacosane	$C_{60}H_{122}$	625	100	829 (solid)				
Heptacosane	$C_{70}H_{142}$	653	109	869 (solid)				

A more comprehensive data can be found in [Pure alkanes properties](#).

See also

[Natural Science / Physics / Chemistry / Chemical Substance / Hydrocarbons](#)

[[Pure alkanes properties](#)]

References

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