

8.8.3: Table of Straight Chain Alkanes

Name	Molecular Formula	Projection Formula	Condensed Structural Formula	Boiling Point (in °C)
Methane	CH4	H H-C-H H	CH ₄	-162
Ethane	C_2H_6	H H H-C-C-H H H	CH ₃ CH ₃	-89
Propane	C ₃ H ₈	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	CH ₃ CH ₂ CH ₃	-42
n-Butane*	C_4H_{10}	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	CH ₃ CH ₂ CH ₂ CH ₃ or CH ₃ (CH ₂) ₂ CH ₃	-0.5
n-Pentane*	C_5H_{12}	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	CH ₃ CH ₂ CH ₂ CH ₂ CH ₃ or CH ₃ (CH ₂) ₃ CH ₃	36
n-Hexane*	C ₆ H ₁₄	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	CH ₃ CH ₂ CH ₂ CH ₂ CH ₂ CH ₃ or CH ₃ (CH ₂) ₄ CH ₃	69
n-Heptane®	C ₇ H ₁₆	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	CH ₃ (CH ₂) ₅ CH ₃	98
n-Octane*	C_8H_{18}	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	—н СН₃(СН₂)₅СН₃	126
n-Nonane*	C_9H_{20}		CH ₃ (CH ₂),CH ₃	151
n-Decane*	C ₁₀ H ₂₂		CH ₃ (CH ₂) ₄ CH ₃	174

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