

## IMENA ALKANOV

(U, str. 127)

1. Alkani so ogljikovodiki s samimi enojnimi vezmi.

**2. Imena nerazvejanih alkanov** (številka spredaj pove, koliko ogljikovih atomov je v spojini):

**1: metan**

**2: etan**

**3: propan**

**4: butan**

**5: pentan**

**6: heksan**

**7: heptan**

**8: oktan**

**9: nonan**

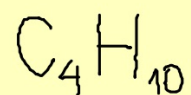
**10: dekan**

### 3. Primeri:

IME	STRUKTURNA FORMULA	RACIONALNA FORMULA	MOLEKULSKA FORMULA
butan	$  \begin{array}{cccc}  & \text{H} & \text{H} & \text{H} & \text{H} \\  &   &   &   &   \\  \text{H} & - \text{C} & - \text{C} & - \text{C} & - \text{C} - \text{H} \\  &   &   &   &   \\  & \text{H} & \text{H} & \text{H} & \text{H}  \end{array}  $	$\text{CH}_3 - \text{CH}_2 - \text{CH}_2 - \text{CH}_3$	$\text{C}_4\text{H}_{10}$
propan	$  \begin{array}{ccc}  & \text{H} & \text{H} & \text{H} \\  &   &   &   \\  \text{H} & - \text{C} & - \text{C} & - \text{C} - \text{H} \\  &   &   &   \\  & \text{H} & \text{H} & \text{H}  \end{array}  $	$\text{CH}_3 - \text{CH}_2 - \text{CH}_3$	$\text{C}_3\text{H}_8$
pentan	$  \begin{array}{ccccc}  & \text{H} & \text{H} & \text{H} & \text{H} & \text{H} \\  &   &   &   &   &   \\  \text{H} & - \text{C} & - \text{C} & - \text{C} & - \text{C} & - \text{C} - \text{H} \\  &   &   &   &   &   \\  & \text{H} & \text{H} & \text{H} & \text{H} & \text{H}  \end{array}  $	$\text{CH}_3 - \text{CH}_2 - \text{CH}_2 - \text{CH}_2 - \text{CH}_3$	$\text{C}_5\text{H}_{12}$
etan	$  \begin{array}{cc}  & \text{H} & \text{H} \\  &   &   \\  \text{H} & - \text{C} & - \text{C} - \text{H} \\  &   &   \\  & \text{H} & \text{H}  \end{array}  $	$\text{CH}_3 - \text{CH}_3$	$\text{C}_2\text{H}_6$
oktan	$  \begin{array}{cccccccc}  & \text{H} & \text{H} & \text{H} & \text{H} & \text{H} & \text{H} & \text{H} & \text{H} \\  &   &   &   &   &   &   &   &   \\  \text{H} & - \text{C} & - \text{C} & - \text{C} & - \text{C} & - \text{C} & - \text{C} & - \text{C} & - \text{C} - \text{H} \\  &   &   &   &   &   &   &   &   \\  & \text{H} & \text{H} & \text{H} & \text{H} & \text{H} & \text{H} & \text{H} & \text{H}  \end{array}  $	$\text{CH}_3 - (\text{CH}_2)_6 - \text{CH}_3$	$\text{C}_8\text{H}_{18}$

4. Splošna formula za alkane:  $C_nH_{2n+2}$   
(n = število ogljikovih atomov)

Primer: butan (n = 4)



nonan

