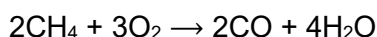
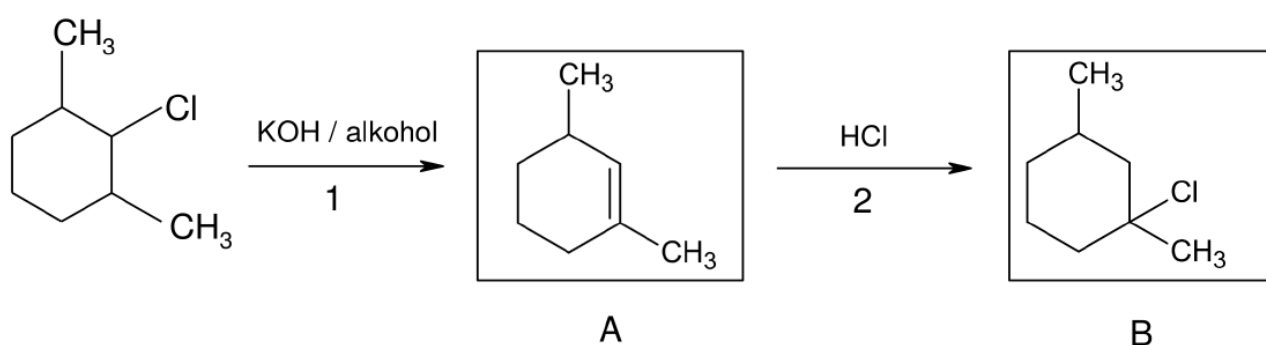


Zadanie 18



Zadanie 19



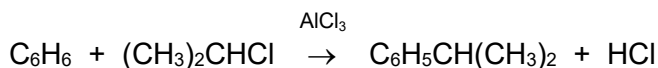
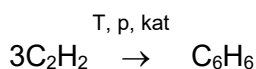
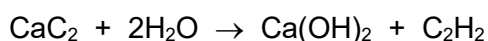
A: 1,3-dimetylocykloheks-1-en

B: 1-chloro-1,3-dimetylocykloheksan

1: eliminacja

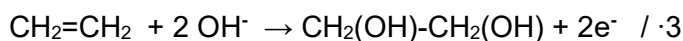
2: addycja

Zadanie 20



3,34 g

Zadanie 21



Zadanie 22

- a) dla 4-etylo-5-metyloheks-1-enu: $\text{CH}_3\text{-CH}(\text{CH}_3)\text{-CH}(\text{C}_2\text{H}_5)\text{-CH}_2\text{-COOH}$, CO_2
dla 4,5-dimetyloheks-2-enu: $\text{CH}_3\text{-CH}_2\text{-C}(\text{CH}_3)_2\text{-COOH}$, $\text{CH}_3\text{-COOH}$
- b) kwas 3-etylo-4-metylopentanowy

Zadanie 23

- a) alken A: $\text{CH}_3\text{-CH}_2\text{-C}(\text{CH}_3)=\text{CH-CH}_2\text{-CH}_2\text{-CH}_3$
alken B: $\text{CH}_3\text{-CH}_2\text{-CH}_2\text{-CH=CH-CH}_2\text{-CH}_2\text{-CH}_3$
- b) alken A: $\text{CH}_3\text{-CH}_2\text{-C}(\text{O})\text{-CH}_3$, $\text{CH}_3\text{-CH}_2\text{-CH}_2\text{-COOH}$
alken B: $\text{CH}_3\text{-CH}_2\text{-CH}_2\text{-COOH}$, $\text{CH}_3\text{-CH}_2\text{-CH}_2\text{-COOH}$
- c) Masa płuczki wzrosła o 1,32 g