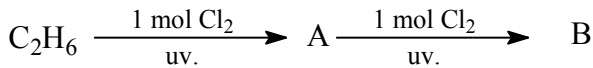


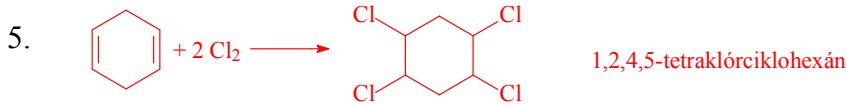
3. Írja fel a heptán teljes oxidációjának reakcióját! Használja a heptán összegképletét!
 $C_7H_{16} + 11 O_2 \longrightarrow 7 CO_2 + 8 H_2O$

Fejezze be a következő reakciókat! Minden vegyületet nevezzen el!

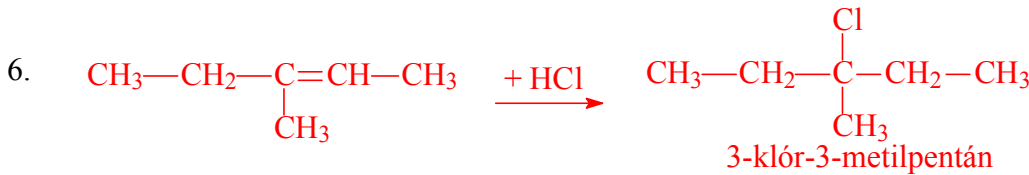


4. $C_2H_6 \xrightarrow[uv.]{1 \text{ mol } Cl_2} C_2H_5Cl \xrightarrow[uv.]{1 \text{ mol } Cl_2}$
 -HCl -HCl
 ClCH₂—CH₂Cl 1,2-diklóretán
 és
 CH₃—CHCl₂ 1,1-diklóretán

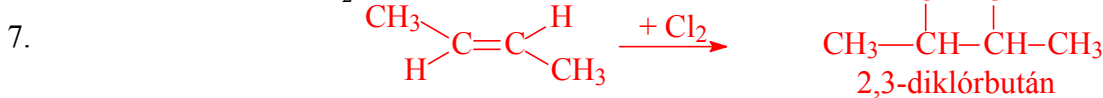
Ciklohexa-1,4-dién + 2 mol Cl₂



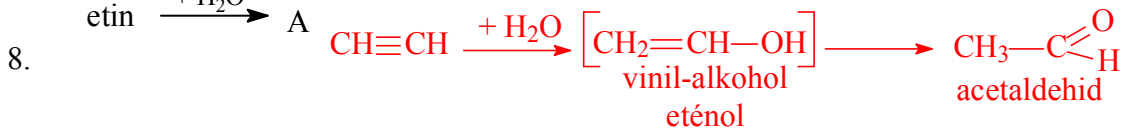
3-metilpent-2-én + HCl



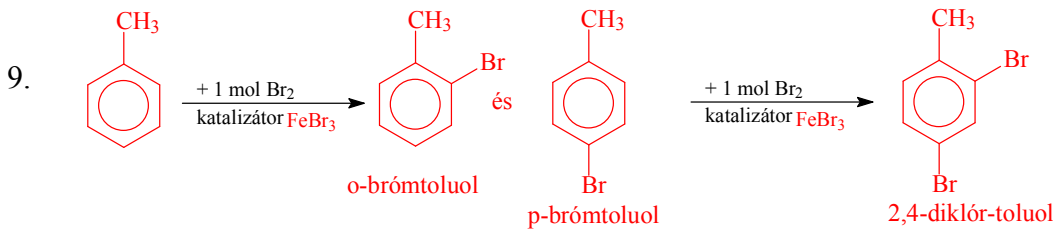
transz-but-2-én + Cl₂



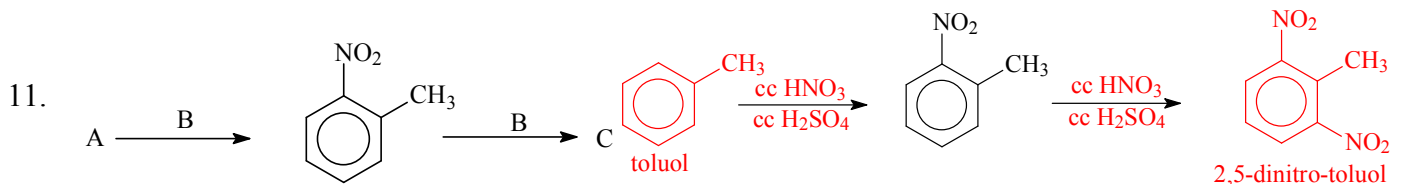
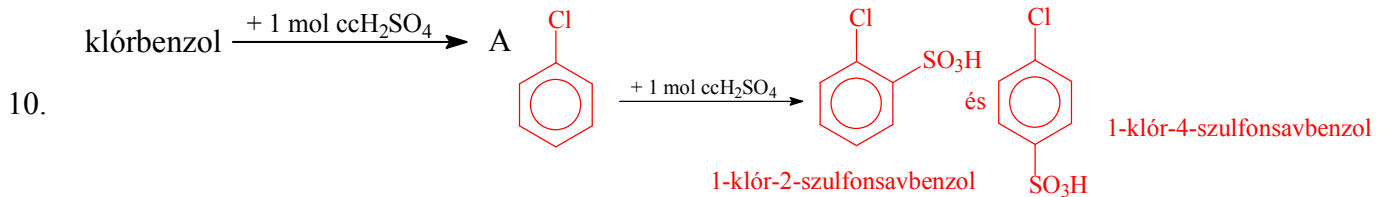
etin $\xrightarrow{+ H_2O}$ A



toluol $\xrightarrow[katalizátor]{+ 1 \text{ mol } Br_2}$ A $\xrightarrow[katalizátor]{+ 1 \text{ mol } Br_2}$ B



klórbenzol $\xrightarrow{+ 1 \text{ mol } ccH_2SO_4}$ A



pent-1-én $\xrightarrow{+ HCl}$ A $\xrightarrow[alkoholos]{KOH}$ B $\xrightarrow{+ Br_2}$ C

