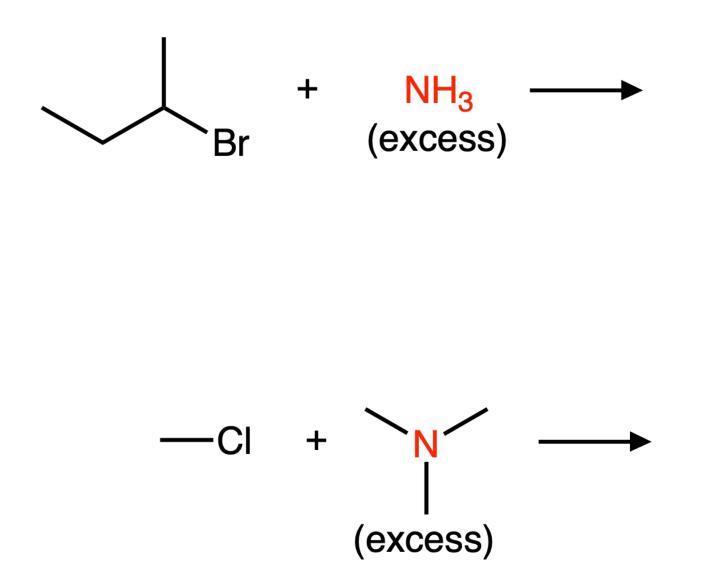
# NITROGEN COMPOUNDS: AMINES, IMINES, AND AMIDES

DR. MIOY T. HUYNH | YALE UNIVERSITY CHEMISTRY 165B | SPRING 2019 WWW.MIOY.ORG/CHEM165

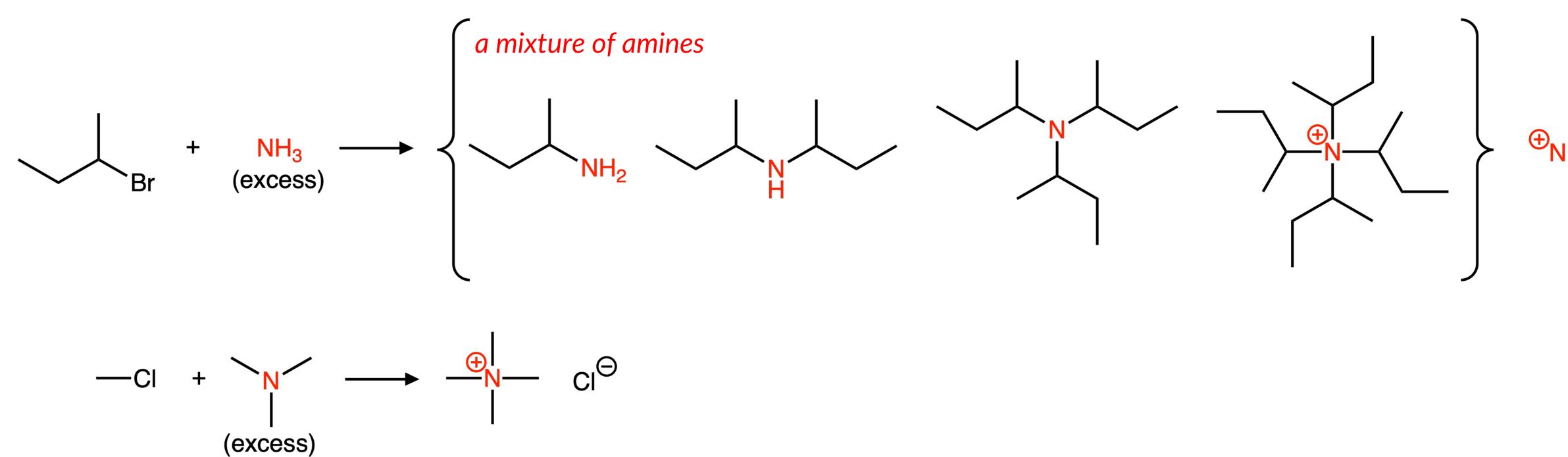
Predict the amine(s) produced from the following nucleophilic substitution reactions.

- answer -



Predict the amine(s) produced from the following nucleophilic substitution reactions.

- answer -



The first reaction shows the disadvantage of making amines using nucleophilic substitution because a mixture of substituted amines is produced.

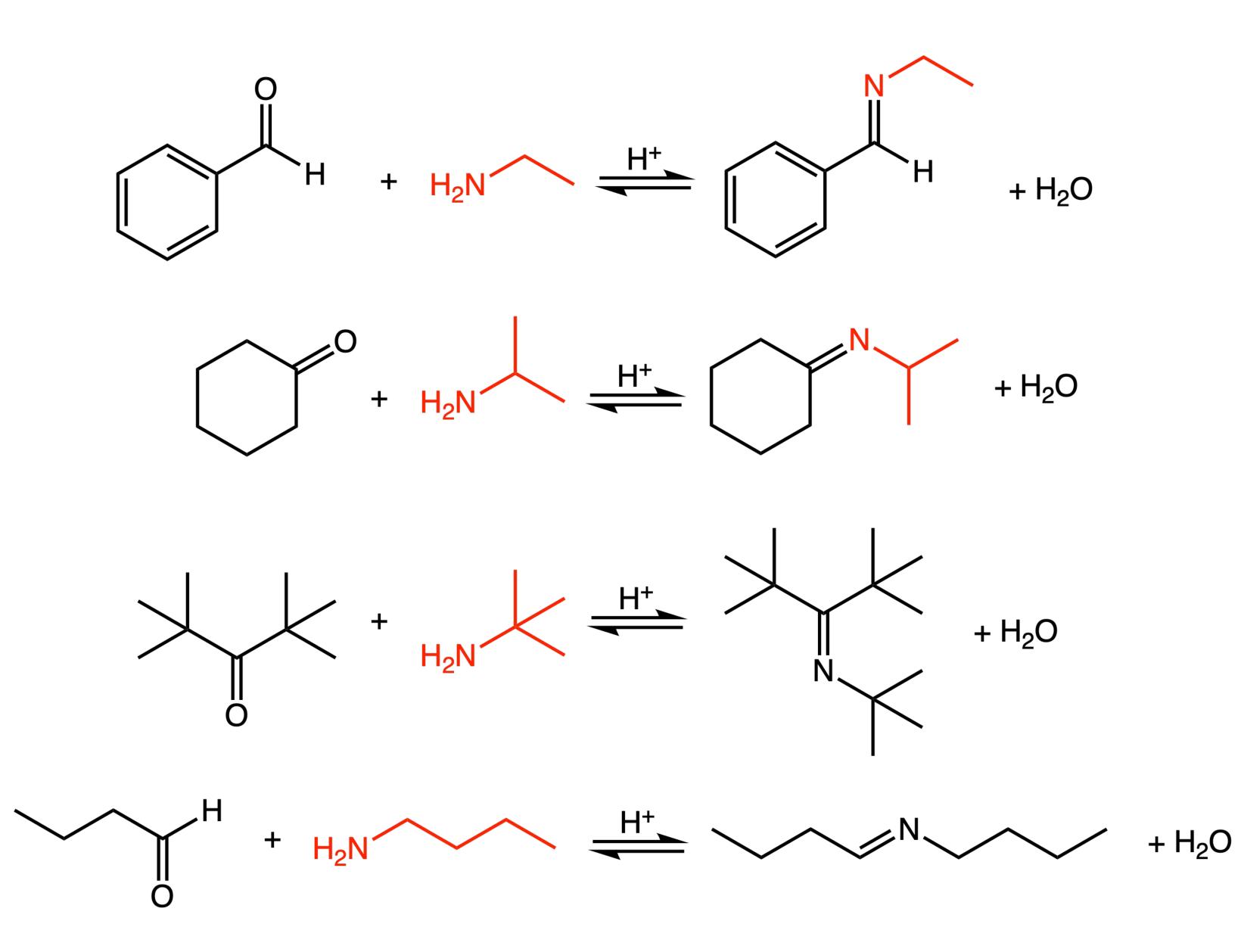
The second reaction shows that this type of reaction could be useful for creating tetra-alkyl amines.





Provide the missing reactant(s) or product(s) for the following imine-synthesis reactions.

- answer -



Provide the missing reactant(s) or product(s) for the following imine-synthesis reactions.

- answer -

