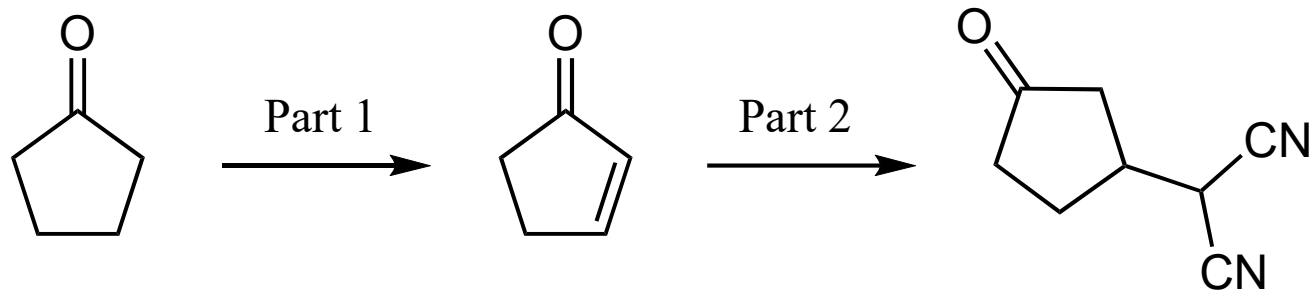


Provide the necessary reagents.



- | | Part 1 | Part 2 |
|----|---|--|
| A) | 1) PBr_3
2) $t\text{-BuOK}$ | $\text{NC}-\overset{\text{MgBr}}{\underset{ }{\text{CH}}}-\text{CN}$
(+ workup) |
| B) | 1) PBr_3
2) $t\text{-BuOK}$ | $\text{NC}-\overset{\text{Br}}{\underset{ }{\text{CH}}}-\text{CN}$
(+ workup) |
| C) | 1) Br_2, AcOH
2) $t\text{-BuOK}$ | $\text{NC}-\overset{\text{MgBr}}{\underset{ }{\text{CH}}}-\text{CN}$
(+ workup) |
| D) | 1) Br_2, AcOH
2) $t\text{-BuOK}$ | $\text{NC}-\text{CH}_2-\text{CN}$
+ NaOEt
(+ workup) |