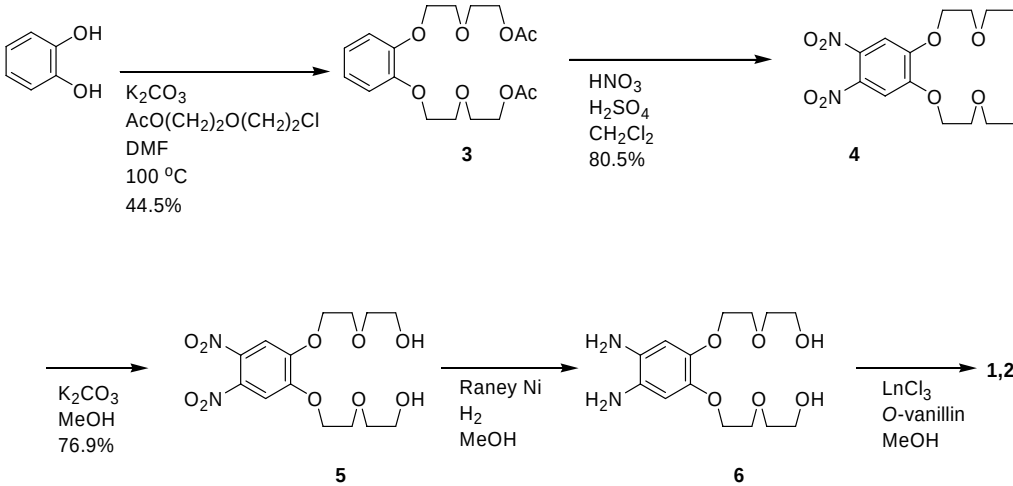
OH
OH
K2CO3
AcO(CH2)2O(CH2)2Cl
DMF
100 °C
44.5%
O
O
OAc
O
O
OAc
3
HNO3
H2SO4
CH2Cl2
80.5%
O2N
O2N
4
K2CO3
MeOH
76.9%
5
Raney Ni
H2
MeOH
H2N
H2N
6
LnCl3
O-vanillin
MeOH
1,2