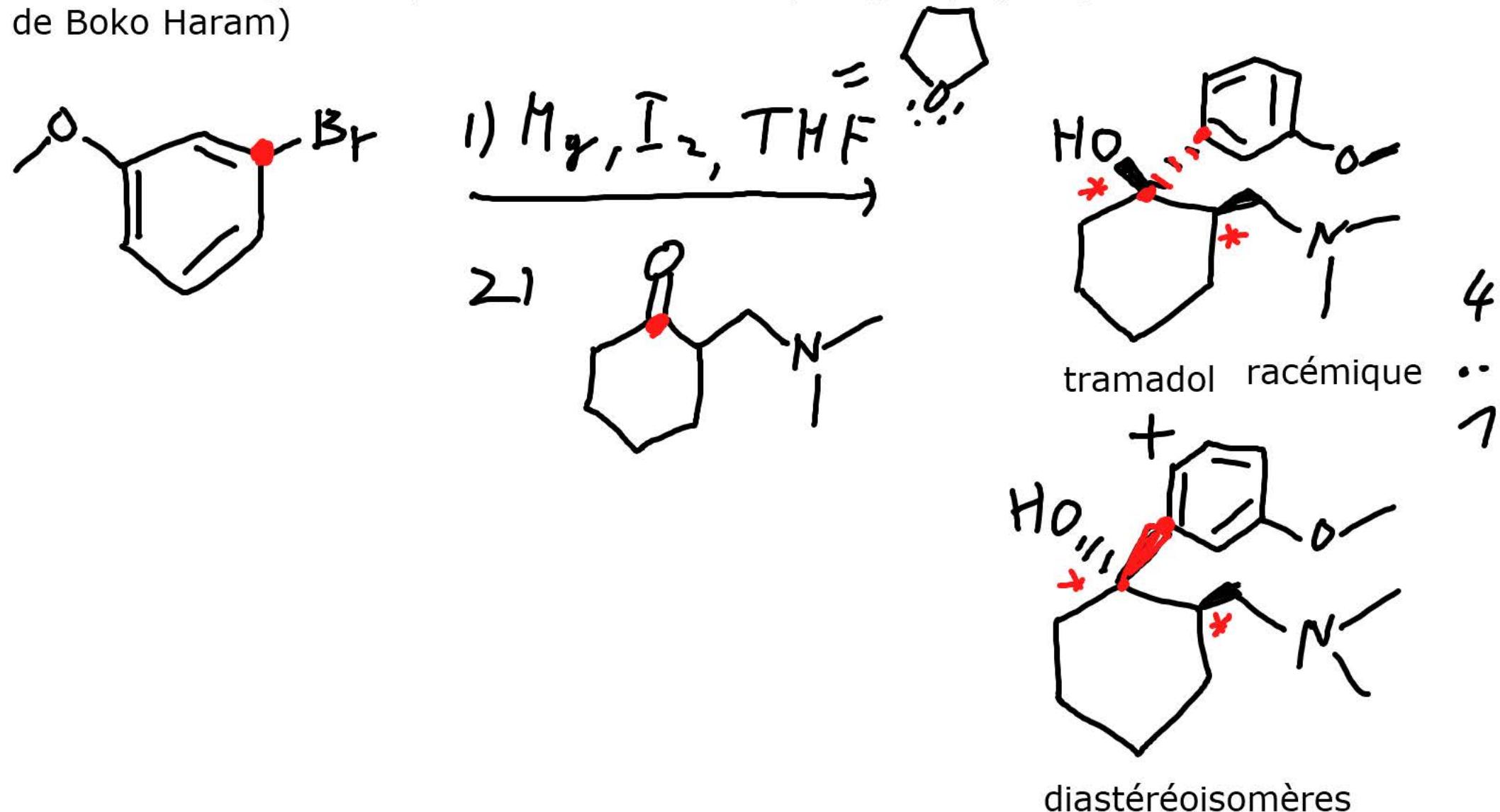
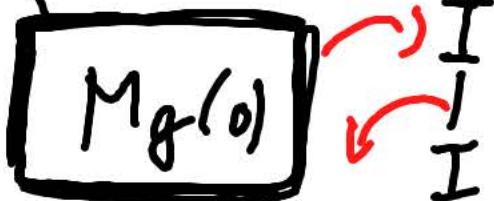


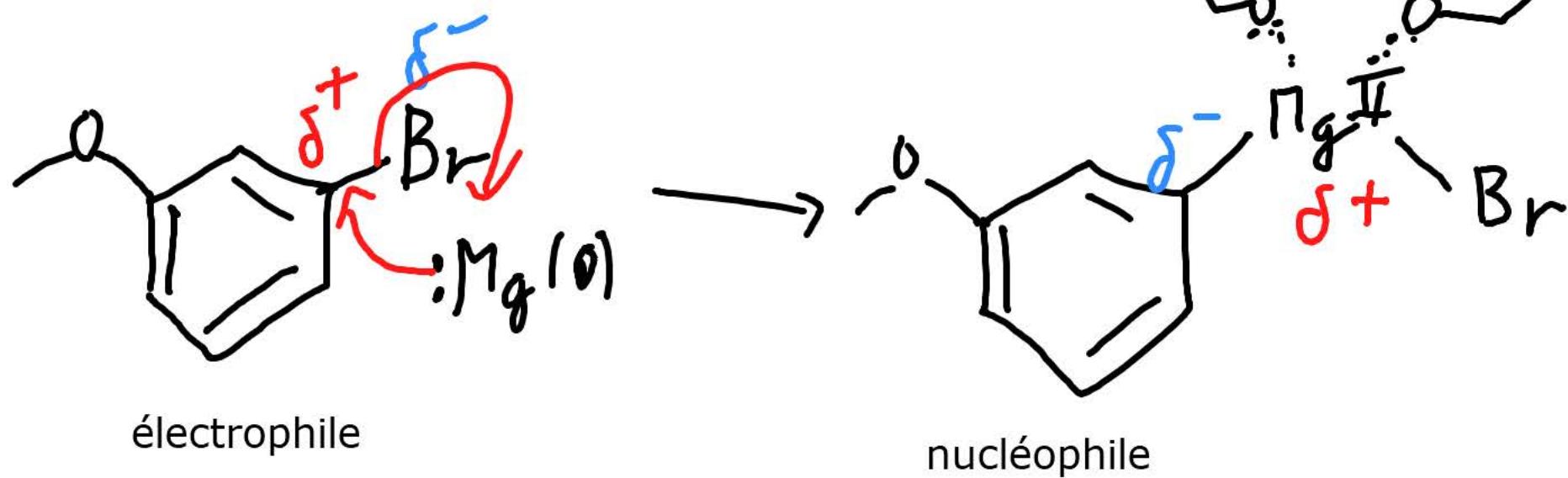
réaction de Grignard: synthèse du Tramadol (analgésique, drogue de Boko Haram)

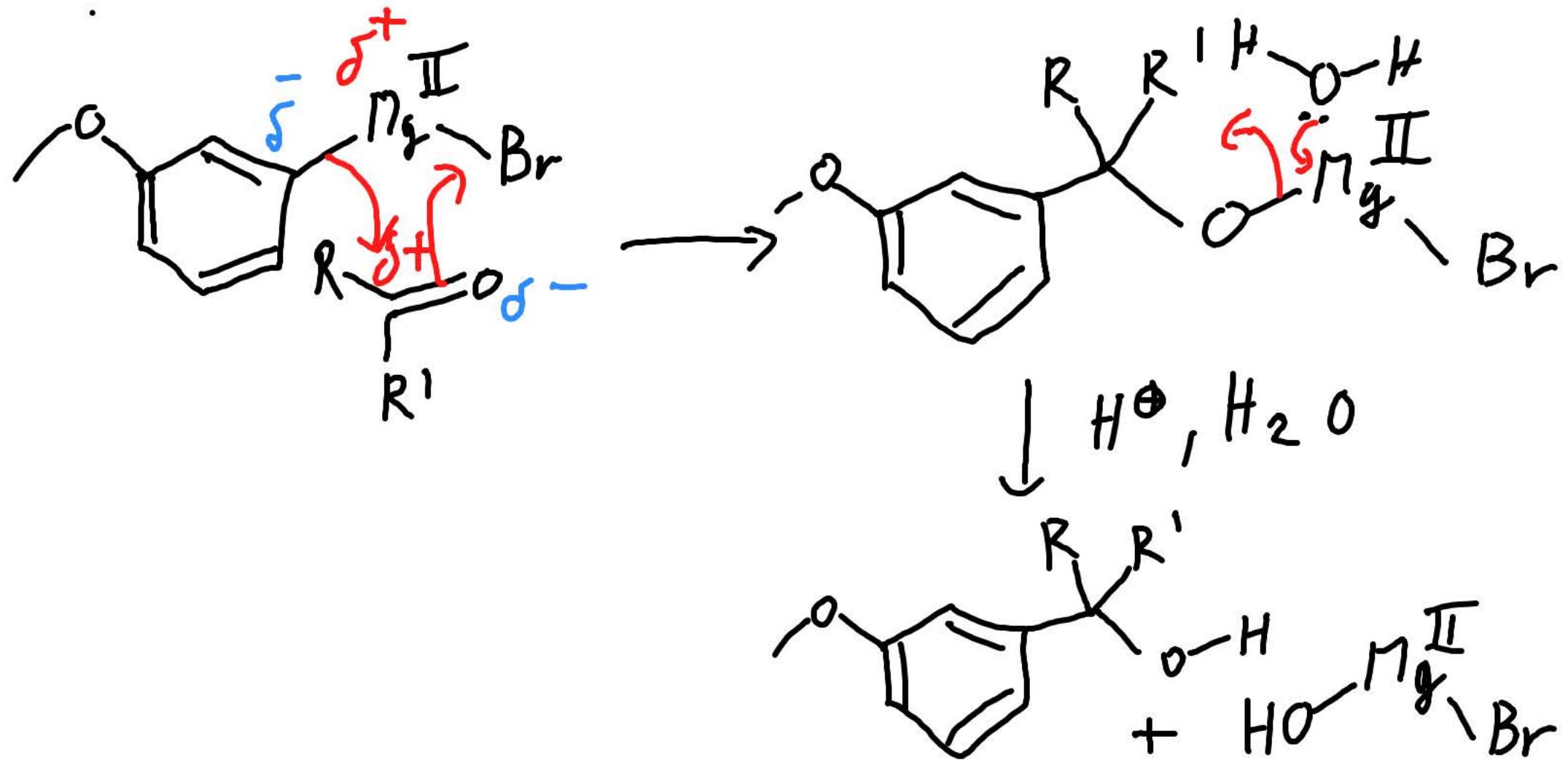


couche inerte



surface activée





cas particulier: réaction de pinacol

