

## Answer on Question#39531 - Chemistry - Organic Chemistry

### Question:

Hi I want the chemical reaction of diphenylamine test for nitrate

### Answer:

Diphenylamine may be used as a wet chemical test for the presence of the nitrate ion. In this test, a solution of diphenylamine and ammonium chloride in sulfuric acid is used. In the presence of nitrates, diphenylamine is oxidized, giving a blue coloration. This coloration occurs due to formation of indophenole:

