

*Titrimetric method for the analysis of free and total chlorine*

## FAS - DPD

Palintest has introduced FAS – DPD, a titrimetric method for the analysis of free and total chlorine originally developed by Palintest founder Dr. Thomas Palin. FAS - DPD uses DPD Powder and Ferrous Ammonium Sulfate to determine the concentration of Free Chlorine and Combined Chlorines (Chloramines) with a resolution of either 0.5 ppm or 0.2 ppm. This method is more accurate than using color comparator blocks for routine testing and ideal for the monitoring of both Swimming Pools and for Industrial / Commercial use.

The determination of free and combined chlorine by titration against a solution of ferrous ammonium sulfate (FAS) using diethyl-p-phenylene diamine (DPD) as an indicator is a well established method and documented in both ASTM and US EPA procedures. The Palintest method, unlike others, for utilizing FAS – DPD for Chlorine analysis are fully compliant with these procedures.

### Important features include:

- Proper Instructions supplied
- pH buffering to insure test accuracy
- Proper pH buffering to ensure test accuracy
- Ability to use reagents with other manufacturer's FAS DPD kits
- Oxystop available to eliminate monopersulfate interference

### No Color Matching:

Free chlorine reacts with diethyl-p-phenylene diamine (DPD) to produce a pink coloration. The free chlorine concentration is determined by titration with a known concentration of ferrous ammonium sulfate solution (FAS) until a colorless endpoint is reached. Subsequent addition of DPD #3 induces a further reaction with any combined chlorine (chloramines) present in the sample and the concentration is again determined by titration with ferrous ammonium sulfate solution.



## Ordering Information

**SP 300 - FAS/DPD Kit**

**SP 400 - FAS/DPD Kit + Oxystop**

**AT 024 - DPD Powder**

**AT 025 - FAS/DPD Reagent**

**AT 026 - DPD No 3 Reagent**

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