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p-Nitrobenzenediazonium Tetrafluoroborate,

$\text{NO}_2\text{C}_6\text{H}_4\text{N}_2\text{BF}_4$ 236.92 CAS RN[®]: 456-27-9.—Yellow-gold crystals. Soluble in acetonitrile. [CAUTION—Shock-sensitive; keep refrigerated.]

• **Assay:** Transfer about 30 mg, accurately weighed, to a low-actinic, 100-mL volumetric flask. Dissolve in 0.01 N hydrochloric acid, dilute with 0.01 N hydrochloric acid to volume, and mix. Using low-actinic glassware, dilute 2.0 mL of the resulting solution with spectrophotometric grade methanol to 50.0 mL. Measure the absorbance of this solution in a 1-cm cell at about 255 nm, using methanol as the blank. Calculate the absorptivity of the solution by dividing the measured absorbance by the concentration in g per mL. Calculate the assay value by the formula:

$$100a/59.4$$

in which a is the absorptivity of the solution: not less than 95.0% is found.

Auxiliary Information - Please [check for your question in the FAQs](#) before contacting USP.

Topic/Question	Contact	Expert Committee
P-NITROBENZENEDIAZONIUM TETRAFLUOROBORATE	Margareth R.C. Marques Principal Scientific Liaison	HDQ Headquarters

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