

Status: Currently Official on 17-Feb-2025
Official Date: Official Prior to 2013
Document Type: Reagents
DocId: GUID-FA9D7AFD-AD84-4819-A5B0-EDEBD1872312_1_en-US
DOI: https://doi.org/10.31003/USPNF_R1642_01_01
DOI Ref: 3pw70

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Xylene Cyanole FF,

$C_{25}H_{27}N_2NaO_6S_2$ 538.61 CAS RN®: 2650-17-1.—Gray-blue to dark blue powder. Soluble in water.

Assay: Transfer about 50 mg, accurately weighed, to a 100-mL volumetric flask, dissolve in water, dilute with water to volume, and mix. Transfer 2.0 mL of the solution to a 50-mL volumetric flask, dilute with pH 7.0 phosphate buffer to volume (See *Solutions*, in this section), and mix. Using a suitable spectrophotometer, 1-cm cells, and water as the blank, record the absorbance of the solution at the wavelength of maximum absorbance at about 614 nm. From the observed absorbance, calculate the absorptivity (see [Ultraviolet-Visible Spectroscopy \(857\)](#)): the absorptivity is not less than 55.9, corresponding to about 83% of $C_{25}H_{27}N_2NaO_6S_2$.

Loss on Drying (731): Dry it at 110° to constant weight: it loses not more than 6.0% of its weight.

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

Topic/Question	Contact	Expert Committee
XYLENE CYANOLE FF	Margareth R.C. Marques Principal Scientific Liaison	HDQ Headquarters

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