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Pyrene,

$C_{16}H_{10}$ 202.25 CAS RN[®]: 129-00-0.—White to light yellow crystals.

Assay: Transfer about 9 mg, accurately weighed, to a 100-mL volumetric flask, dissolve in methanol, dilute with methanol to volume, and mix. Transfer 2.0 mL of this solution to a 100-mL volumetric flask, dilute with methanol to volume, and mix. Using a suitable spectrophotometer, 1-cm cells, and methanol as the blank, record the absorbance of the solution at the wavelength of maximum absorbance at about 238 nm. From the observed absorbance, calculate the absorptivity (see [Ultraviolet-Visible Spectroscopy \(857\)](#)): the absorptivity is not less than 432.9, corresponding to not less than 98% of $C_{16}H_{10}$.

MELTING RANGE (741): between 149° and 153° over a 2° range.

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

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

Most Recently Appeared In:

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