

<b>Method: ACRN-29</b> Revision: 5 Final Revision Date: 04/7/03	<b>Acrylonitrile Specification Tests</b>	<b>INEOS Nitriles</b>
Last Review: 04/01/08	<b>Acrylonitrile UV Scan</b>	Page 1 of 2
Next Review: 04/01/12		Reviewed by: Jennifer Young

## METHOD SUMMARY

One indication of the purity of acrylonitrile is how strong the absorbance is in the range of 200 to 320 nm. The point at which the absorbance increases to greater than 1 is the UV cut-off point.

## SAFETY

Acrylonitrile is hazardous to the health and dangerous to handle. Use acrylonitrile in a well ventilated hood. Review the MSDS for detailed information concerning toxicity, first aid procedures and safety precautions.

Refer to the appropriate safety section or site manual for the necessary protective equipment to use when handling any reagents or samples.

## INTERFERENCES

There are no known interferences to this method.

## APPARATUS AND REAGENTS

**Spectrophotometer**, UV-Visible, Hitachi U-2000 or equivalent.

**Cells**, 10 mm, Quartz or UV transparent

## CALIBRATION

Refer to Calibration Method CAL-1 and/or the instrument manual for wavelength and absorbance scale calibration procedures.

Technical information contained herein is furnished without charge or obligation, and is given and accepted at recipient's sole risk. Because conditions of use may vary and are beyond our control, INEOS USA LLC makes no representation about, and is not responsible or liable for the accuracy or reliability of data, nor for toxicological effects or Industrial Hygiene requirements associated with particular uses of any product described herein. Nothing contained in this document shall be considered a recommendation for any use that may infringe patent rights, or an endorsement of any particular material, equipment, service, or other item not supplied by INEOS USA LLC. The "Properties" and "Applications" listed in this document are not specifications. They are provided as information only and in no way modify, amend, enlarge, or create any specification or warranty, and ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE EXCLUDED.

October 2006

©2006 INEOS USA LLC

This document is UNCONTROLLED. For the latest revision of this test method, visit <http://techservice.innovene.com> and select Acrylonitrile in "Browse by Product."

<b>Method: ACRN-29</b> Revision: 5 Final Revision Date: 04/7/03	<b>Acrylonitrile Specification Tests</b>	<b>INEOS Nitriles</b>
Last Review: 04/01/08	<b>Acrylonitrile UV Scan</b>	Page 2 of 2
Next Review: 04/01/12		Reviewed by: Jennifer Young

## PROCEDURE

Scan the sample from 320 to 200 nm.  
Record the wavelength when 1.0 absorbance unit is reached on recorded scan.

## REPORT

Report the wavelength to the nearest whole unit (nm).