

Method: ACEN-1 Revision: 5 Final Revision Date: 11/18/03	Acetonitrile Specification Tests	INEOS Nitriles
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METHOD SUMMARY

The specific gravity is read directly at 20°C with a precision hydrometer.

SAFETY

Acetonitrile is hazardous to the health and dangerous to handle. Use acetonitrile 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.

REFERENCES

ASTM E126-92(1998) "Standard Test Method for Inspection and Verification of Hydrometers" <http://www.astm.org>

INTERFERENCES

There are no known interferences to this method.

APPARATUS AND REAGENTS

1. **Specific gravity Hydrometer**, 20°C, Range 0.750-0.850, DMA 35 density meter from Parr, or equivalent. (CAL-4)
2. **Hydrometer Jar**

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CALIBRATION

Refer to calibration procedure CAL-4.

PROCEDURE

Pour the sample into a hydrometer jar and read the specific gravity directly with a hydrometer when the temperature is $20^{\circ} \pm 1^{\circ}\text{C}$.

REPORT

Report the specific gravity at 20°C to 3 decimal places.

Ex: Sp. Gr. = 0.780