

**MATERIAL PRODUCT:** Holmium Oxide Solution UV and Visible Wavelength Standard 240nm to 640nm

**MATERIAL NO:** 84777.180

**BATCH LOT NO:** 180332

**DATE OF TEST:** 28 November 2018

**EXPIRY DATE:** 10-2021

SBW	Peak Wavelength (nm)						
0.10	640.427	536.327	485.027	467.577	451.777	416.027	385.277
0.20	640.363	536.463	485.163	467.763	451.963	416.113	385.413
0.50	640.416	536.466	485.166	467.716	451.916	416.116	385.416
1.00	640.505	536.555	485.155	467.755	451.505	416.305	385.605
2.00	640.755	536.855	485.255	467.855	451.255	416.705	385.805

SBW	Peak Wavelength (nm)					
0.10	361.177	345.577	286.727	277.977	249.677	240.727
0.20	361.213	345.613	286.863	278.063	249.663	240.763
0.50	361.316	345.566	286.966	278.166	249.716	240.866
1.00	361.255	345.555	287.155	278.155	249.755	241.005
2.00	361.205	345.655	287.555	278.155	249.955	241.055

**TEST METHOD:**

The result reported above was determined by analysis of a sample of this lot taken at time of manufacture. The wavelength values of the standard was determined using a high performance calibrated UV Spectrometer according to TPUVWAV01.

This test method provides traceability to high purity ISO Guide 34 Certified Reference Materials and to National Institute of Standards and Technology (NIST).

This certificate relates solely to the lot number given above. The uncertainty of measurement has been calculated not to exceed ±0.35nm at 95% confidence level, i.e. coverage factor k=2.

**TRACEABILITY IN THE PRODUCTION OF THIS STANDARD:**

This product was prepared gravimetrically on a weight/weight basis. Both solute and solvent were weighed on a balance calibrated using OIML traceable weights by an ISO 17025 accredited calibration service provider (265C). The resulting Balance Certificate of Calibration was issued in accordance with the requirements of ISO/IEC 17025. The balance was calibrated under monitored environmental conditions and atmospheric pressure. Tests were performed for capacity, readability, repeatability, eccentricity and linearity.

**INSTRUCTIONS FOR USE:**

- Shake well before use
- Run against an Air Blank

**Date:** 28 November 2018

Signature

We certify that this batch conforms to the specifications listed above

Stephen Hayes  
QC Technician

