

## Certificate of Quality

**Product Name:** ACES  
Water soluble, low interference with biological processes and biological membranes (penetration, solubilization, adsorption on surface), non-toxic and low UV absorption at wavelength >260nm.

Product Code: A2102 CAS #: 7365-82-4  
Grade: High Purity Formula: C<sub>4</sub>H<sub>10</sub>N<sub>2</sub>O<sub>4</sub>S  
Appearance: White crystalline powder MW: 182.2  
Reassay Date: 4 years from shipping date  
Storage: Store at room temperature. Protect from moisture.

---

TEST	SPECIFICATION
Assay (Titration, dried basis)	≥ 99.0%
Solubility (0.1M in Water)	Clear and Complete
pKa (25°C)	6.6-7.0
Moisture (LOD)	≤ 1.0%
A260 (0.1M in water)	≤ 0.05
A280 (0.1M in water)	≤ 0.05

All specifications are subject to change without prior notice. Last Revision 2018-03-23, by M. He.

**Limited Usage and Warranty:** For Research Use Only. Not for use diagnostic procedures, drug use, or for administration to humans or animals. Biomatik warrants materials of said quality at the time of sale. It is the sole responsibility of the customer to determine the adequacy of all materials for any intended or specific purpose of use. Biomatik's sole obligation is to replace the material up to the extent of the purchase price. This warranty applies only to products in original packaging and does not apply to a product which has been tampered with or altered in any way or which has been misused or damaged by accident or negligence. No other warranties of any kind, expressed or implied, including without limitation, implied warranties of merchantability or fitness for a particular purpose, are provided by Biomatik. Biomatik shall have no liability for any direct, indirect, consequential, or incidental damages arising out of the use, the results of use, or the inability to use this product.