**Product Information**

**Amylose**  
*Item No. 17664*

**CAS Registry No.:** 9005-82-7  
**MF:** \((C_6H_{10}O_5)_n\)  
**Stability:** ≥2 years at -20°C  
**Supplied as:** A white to off-white powder

**Laboratory Procedures**

For long term storage, we suggest that amylose be stored as supplied at -20°C. It should be stable for at least two years. Amylose is supplied as a white to off-white powder. A stock solution may be made by dissolving the amylose in the solvent of choice. Amylose is soluble in 0.5 M NaOH at a concentration of approximately 1 mg/ml.

Amylose is sparingly soluble in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

Amylose is a polysaccharide made of \(\alpha\)-D-glucose units, bound to each other through \(\alpha(1\rightarrow4)\) glycosidic bonds. It constitutes about 20% of starch, the major storage carbohydrate in plants. It can act as an indicator, turning blue in the presence of iodine, and has also been coupled to magnetic beads for the isolation and purification of maltose-binding protein fusion proteins.1,2

**References**


**Related Products**

For a list of related products please visit: www.caymanchem.com/catalog/17664

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**WARNING:** This product is for laboratory research only; not for administration to humans. Not for human or veterinary diagnostic or therapeutic use.

**Safety Data**

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some but not all of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

**Warranty and Limitation of Remedy**

Cayman Chemical Company makes no warranty or guarantee of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals hereof. Cayman warrants only to the original customer that the material will meet our specifications at the time of delivery. Cayman will carry out its delivery obligations with due care and skill. Thus, in no event will Cayman have any obligation or liability, whether in tort (including negligence) or in contract, for any direct, indirect, incidental or consequential damages, even if Cayman is informed about their possible existence.

This limitation of liability does not apply in the case of intentional acts or negligence of Cayman, its directors or its employees.

Buyer’s exclusive remedy and Cayman’s sole liability hereunder shall be limited to a refund of the purchase price, or at Cayman’s option, the replacement, at no cost to Buyer, of all material that does not meet our specifications.

A refund or replacement is conditioned on Buyer giving written notice to Cayman within thirty (30) days after arrival of the material at its destination. Failure of Buyer to give said notice within thirty (30) days shall constitute a waiver by Buyer of all claims hereunder with respect to said material.

For further details, please refer to our Warranty and Limitation of Remedy located on our website and in our catalog.