

**Product Name:** 2'-Deoxyadenosine monohydrate, 99%  
**Catalog Number:** A11166.03

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**CAS Number:** 16373-93-6  
**IUPAC Name:** (2R,3S,5R)-5-(6-amino-9H-purin-9-yl)-2-(hydroxymethyl)oxolan-3-ol  
**Molecular Formula:** C<sub>10</sub>H<sub>13</sub>N<sub>5</sub>O<sub>3</sub>  
**Molecular Weight:** 251.25  
**MDL Number:** MFCD00149364  
**InChI Key:** OLXZPDWKRNYJJZ-YUZWJPFNSNA-N  
**SMILES:** NC1=C2N=CN([C@H]3C[C@H](O)[C@@H](CO)O3)C2=NC=N1  
**Synonym:** 2-deoxyadenosine

### Product Specification

**Appearance (Color):** White  
**Form:** Powder  
**Water Content (Karl Fischer Titration):** 5.0 to 8.0% (theory 6.69%)  
**Optical Rotation:** -25.3? ± 1.5? (c = 0.5, Water)  
**Assay (HPLC):** ≥98.5%  
**Melting Point (clear melt):** 188.0-194.0?C

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**Date Of Print:** 05/03/2026

*Product Specifications are subject to amendment and may change over time. Data contained is accurate as of the date printed.*