>>**Derivative:** Ca, Mg salt
Synonym(s): Swartzite

CAS Registry Number: 12202-86-7
Molecular Formula: $C_3CaMgO_{11}U$
Molecular Weight: 514.438
Accurate Mass: 513.942482
Percentage Composition: C 7.00%; Ca 7.79%; Mg 4.72%; O 34.21%; U 46.27%
Source/Synthesis: Occurs as secondary mineral at sites in USA
Physical Description: Bright green cryst. + $12H_2O$. Dull yellowish white (anhydrous)

>>**Derivative:** Tetra-NH_4 salt
Synonym(s): AUC

CAS Registry Number: 18077-77-5
Molecular Formula: $C_3H_{16}N_4O_{11}U$
Molecular Weight: 522.208
Accurate Mass: 522.132345
Percentage Composition: C 6.90%; H 3.09%; N 10.73%; O 33.70%; U 45.58%
Use/Importance: Important in prep. of homogenous (U, Pu)O_2 fuels, and in conversion of UF_6 + $U_2(NO_3)_2$ to UO_2
Physical Description: Lemon-yellow or green-yellow monoclinic cryst.
Other Data: On heating forms U_3O_8, NH_3, CO_2. Dec. >150°

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