

Product Name:	Sulfamonomethoxine
Product Number:	S013
CAS Number:	1220-83-3
Molecular Formula:	$C_{11}H_{12}N_4O_3S$
Molecular Weight:	280.30 g/mol
Form:	Powder
Appearance:	White to off-white crystalline powder
Solubility:	Ethanol: Soluble Methanol: Soluble Water: 10 mg/mL. Solubility increases with heating.
Source:	Semi-synthetic
Boiling Point:	513.2 °C
Melting Point:	203-206 °C
Flash Point:	264.2 °C
Storage Conditions:	2-8 °C
Description:	Sulfamonomethoxine is a bacteriostatic sulfonamide antibiotic which acts as a folic acid synthesis inhibitor.
Mechanism of Action:	Like most sulfonamides, sulfamonomethoxine inhibits folic acid synthesis by acting as a competitive inhibitor of dihydropteroate synthetase, an enzyme found in the folic acid synthesis pathway.