

## Product Information

### Amifostine hydrate, Purity ≥98%

**Cat. No.:** X24-09-YM1289

**Size:** 25 mg; 50 mg; 100 mg; 200 mg

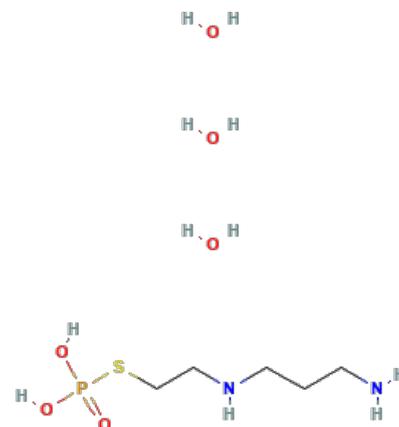
**CAS Number:** 112901-68-5

**Compound CID:** 148139

**Synonym:** 112901-68-5; Amifostine trihydrate; Ethylol;

2-(3-Aminopropylamino)ethylsulfanylphosphonic acid; trihydrate

**This product is for research use only and is not intended for diagnostic use.**



#### Product Information

<b>Description</b>	Amifostine hydrate, insoluble in DMSO and ethanol and soluble in water, is the first approved radioprotective compound. The molecular weight of the compound is 268.27, and its molecular formula is C <sub>5</sub> H <sub>15</sub> N <sub>2</sub> O <sub>3</sub> PS·3H <sub>2</sub> O.
<b>Molecular Weight</b>	268.27
<b>Molecular Formula</b>	C <sub>5</sub> H <sub>15</sub> N <sub>2</sub> O <sub>3</sub> PS·3H <sub>2</sub> O
<b>IUPAC Name</b>	2-(3-Aminopropylamino)ethylsulfanylphosphonic acid;trihydrate
<b>InChI</b>	InChI=1S/C5H15N2O3PS.3H2O/c6-2-1-3-7-4-5-12-11(8,9)10;;;/h7H,1-6H2,(H2,8,9,10);3*1H2
<b>InChI Key</b>	TXQPXJKRNHJWAX-UHFFFAOYSA-N
<b>Canonical SMILES</b>	C(CN)CNCCSP(=O)(O)O.O.O.O
<b>Isomeric SMILES</b>	CC/C=C\C[C@@H]1[C@H](CCC1=O)CC(=O)O
<b>Form</b>	Lyophilized powder
<b>Purity</b>	≥98%
<b>Impurities</b>	Free from inappropriate visible particulates, foreign matter, discoloration, or other defects.
<b>Solubility</b>	<i>In vitro</i> : DMSO: insoluble; Water (warmed): 39 mg/mL (145.37 mM); Ethanol: insoluble
<b>Identity</b>	Confirmed by NMR/HPLC/MS.
<b>Stability</b>	In its lyophilized form, the chemical remains stable for 36 months.
<b>Quality Level</b>	Research grade
<b>Applications</b>	Amifostine hydrate plays a key role in protecting normal tissues from the toxic effects of chemotherapy and radiation.
<b>Storage</b>	Store at -20°C, and keep desiccated.



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