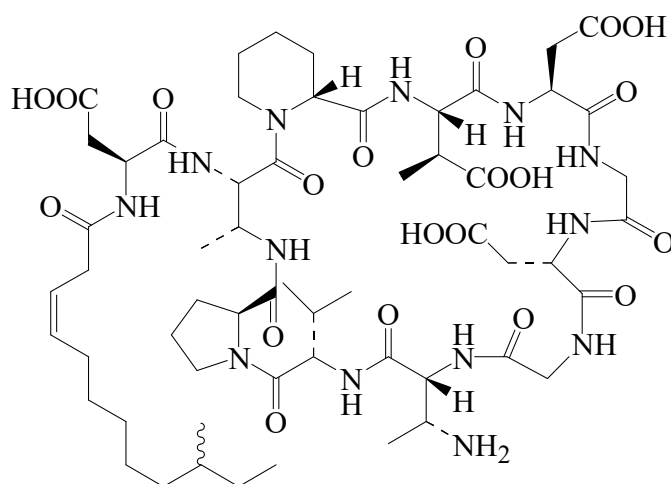




>> **Name:** Amphomycin, 9CI, BAN, USAN

**Synonym(s):** Glumamycin. **Amfomycin**, INN. Antibiotic A 1437E. A 1437E



**CAS Registry Number:** 1402-82-0

**Related CAS Registry Numbers(s):** 1405-31-8 11006-01-2

**Molecular Formula:** C<sub>58</sub>H<sub>91</sub>N<sub>13</sub>O<sub>20</sub>

**Molecular Weight:** 1290.432

**Accurate Mass:** 1289.650337

**Percentage Composition:** C 53.98%; H 7.11%; N 14.11%; O 24.80%

**Biological Source:** Prod. by *Streptomyces canus*, *Streptomyces violaceus* and *Streptomyces albogriseolus*. Also from *Actinoplanes friuliensis*

**Biological Use/Importance:** Inhibits the cell wall formation of *Bacillus cereus*. Effective disinfectant of pebrine diseased silkworm eggs. Polypeptide antibiotic active against gram-positive bacteria. Applied topically in treatment of skin infections

**Physical Description:** Cryst.

**Optical Rotation:**  $[\alpha]_D^{25} +7.5$  (c, 1 in H<sub>2</sub>O at pH 6)

**Other Data:** Isoelectric point 3.5-3.6. Also contains a minor component with (+)-isododecenoic acid as fatty acid. Shows low toxicity

**Hazard & Toxicity:** LD<sub>50</sub> (mus, orl) 500 mg/kg

**Sigma:** A9835

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