

## Tylosin Standard

### Product Information

#### Outline

Tylosin is a 16-membered macrocyclic lactone isolated from *Streptomyces fradiae* in 1961. Tylosin has broad spectrum antibacterial activity and was developed as a veterinary pharmaceutical for treatment of bacterial infections in a range of domestic animals . Tylosin acts by binding to the 50S ribosomal subunit resulting in the inhibition of protein synthesis in bacteria.

#### Catalog Number

CSVD0181

**Size** 100mg

#### Storage Condition

2-8 °C

#### Use for

HPLC

#### CAS

1401-69-0

#### Molecular Formula

C<sub>46</sub>H<sub>77</sub>NO<sub>17</sub>

#### Molecular Weight

916.10

#### Appearance

Off-White to Pale Yellow Solid

#### Melting Point

135-137 °C

#### Boiling Point

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796.05 °C (rough estimate)

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**Density**

1.1424 (rough estimate)

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**Refractive Index**

1.5280 (estimate)

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**Purity**

97.0+% (HPLC)

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**Compound**

Tylosin

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**Pka**

7.73(H<sub>2</sub>O<sub>t</sub> = 25 l = 0.167) (Uncertain)

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**Water Solubility**

H<sub>2</sub>O: soluble 50 mg/mL

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**Safety Information**

GHS08,GHS09

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**Alpha**

D<sub>25</sub> -46° (c = 2 in methanol)

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