



LKT Laboratories, Inc.

## T2 Triol

Phone: 888-558-5227  
651-644-8424  
Fax: 888-558-7329  
Email: [getinfo@lktlabs.com](mailto:getinfo@lktlabs.com)  
Web: [lktlabs.com](http://lktlabs.com)

### Product Information

**Product ID** T0004

**CAS No.** 34114-98-2

**Chemical Name** 12,13-Epoxytrichothec-9-ene-3- $\alpha$ ,4- $\beta$ ,8- $\alpha$ ,15-tetrol 8-  
isovalerate 3- $\alpha$ ,4- $\beta$ ,15-Trihydroxy-8- $\alpha$ -(3-  
methylbutyryloxy)-12,13-epoxytrichothec-9-ene

**Synonym** T2 toxin triol, T-2 Triol

**Formula** C<sub>20</sub>H<sub>30</sub>O<sub>7</sub>

**Formula Wt.** 382.45

**Melting Point** 162 °C

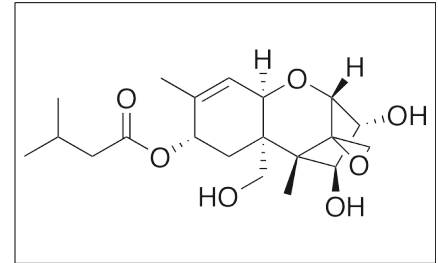
**Purity**  $\geq$ 97%, TLC

**Solubility** DMSO, Dichloromethane,  
methanol. Slightly soluble  
in water.

**Store Temp** -20 °C

**Ship Temp** Ambient

**Description** T2 triol is a *Fusarium* trichothecene mycotoxin. In vitro, this compound displays significant cytotoxic activity, inducing breakdown of polyribosomes and inhibiting polypeptide chain elongation in eukaryotes. Additionally, T2 triol exhibits cytotoxicity in Jurkat T cells. This mycotoxin was initially produced by mycoplasma in barley, maize, oats, and other livestock feed grains.



**Bulk quantities available upon request**

Product ID	Size
T0004	1 mg
T0004	5 mg

**References** Alassane-Kpembé I, Kolf-Clauw M, Gauthier T, et al. New insights into mycotoxin mixtures: the toxicity of low doses of Type B trichothecenes on intestinal epithelial cells is synergistic. *Toxicol Appl Pharmacol.* 2013 Oct 1;272(1):191-8. PMID: 23735874.

Tan DC, Flematti GR, Ghisalberti EL, et al. Mycotoxins produced by *Fusarium* species associated with annual legume pastures and 'sheep feed refusal disorders' in Western Australia. *Mycotoxin Res.* 2011 May;27(2):123-35. PMID: 23605703.

Edwards SG. *Fusarium* mycotoxin content of UK organic and conventional oats. *Food Addit Contam Part A Chem Anal Control Expo Risk Assess.* 2009 Jul;26(7):1063-9. PMID: 19680981.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.