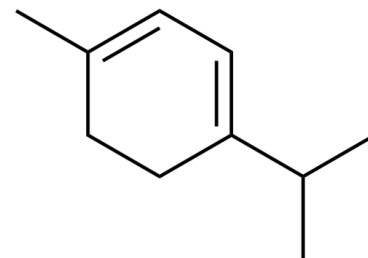


## Data Sheet

<b>Product Name:</b>	$\alpha$ -Terpinene
<b>Cat. No.:</b>	CS-0039183
<b>CAS No.:</b>	99-86-5
<b>Molecular Formula:</b>	C <sub>10</sub> H <sub>16</sub>
<b>Molecular Weight:</b>	136.23
<b>Target:</b>	Fungal; Parasite
<b>Pathway:</b>	Anti-infection
<b>Solubility:</b>	DMSO : 100 mg/mL (734.05 mM; Need ultrasonic)



### BIOLOGICAL ACTIVITY:

$\alpha$ -Terpinene (Terpilene) is a monoterpene found in the essential oils of a large variety of foods and aromatic plants such as *Mentha piperita*.  $\alpha$ -Terpinene is active against **Trypanosoma evansi** and has the potential for trypanosomiasis treatment.  $\alpha$ -Terpinene has antioxidant and antifungal properties<sup>[1][2][3][4]</sup>. IC50 & Target: *Trypanosoma evansi*<sup>[1]</sup>

### References:

- [1]. Matheus D Baldissera, et al. In Vitro and in Vivo Action of terpinen-4-ol,  $\gamma$ -Terpinene, and  $\alpha$ -Terpinene Against *Trypanosoma Evansi*. *Exp Parasitol.* 2016 Mar;162:43-8.
- [2]. Patricia R Quiroga, et al. Contribution of Organic Acids to  $\alpha$ -Terpinene Antioxidant Activity. *Food Chem.* 2019 Mar 30;277:267-272.
- [3]. Johanna Rudbäck, et al.  $\alpha$ -Terpinene, an Antioxidant in Tea Tree Oil, Autoxidizes Rapidly to Skin Allergens on Air Exposure. *Chem Res Toxicol.* 2012 Mar 19;25(3):713-21.
- [4]. B Oliva, et al. Antimycotic Activity of *Melaleuca Alternifolia* Essential Oil and Its Major Components. *Lett Appl Microbiol.* 2003;37(2):185-7.

### CAIndexNames:

1,3-Cyclohexadiene, 1-methyl-4-(1-methylethyl)-

### SMILES:

CC(C1=CC=C(C)CC1)C

**Caution: Product has not been fully validated for medical applications. For research use only.**

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