

---

**Product Data Sheet**

---

Product Name: Piperitenone

Cat. No.: GC18645

**Chemical Properties**

Cas. No. 491-09-8

Chemical Name 3-methyl-6-(1-methylethylidene)-2-cyclohexen-1-one

SMILES CC(CC/C1=C(C)/C)=CC1=OFormula C<sub>10</sub>H<sub>14</sub>O M.Wt 150.2

Solubility DMF: miscible,DMSO: miscible,Ethanol: miscible Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

Piperitenone is a monoterpene that has been found in various plants, including Cannabis, and has antioxidant activity. It scavenges 2,2-diphenyl-1-picrylhydrazyl radicals in a cell free assay (IC<sub>50</sub> = 22.7 µg/ml). Piperitenone also inhibits peroxidation of linoleic acid .

## References:

[1]. Turner, C.E., Elsohly, M.A., and Boeren, E.G. Constituents of Cannabis sativa L. XVII. A review of the natural constituents J. Nat. Prod. 43(2), 169-234 (1980).

[2]. Iqbal, T., Hussain, A.I., Chatha, S.A., et al. Antioxidant activity and volatile and phenolic profiles of essential oil and different extracts of wild mint (Mentha longifolia) from the Pakistani flora J. Anal. Methods Chem. 2013:536490, (2013).

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

---