

Product Data Sheet

Product Name: Trans-Anethole ((E)-Anethole)

Cat. No.: GC32428

Chemical Properties

Cas. No. 4180-23-8

SMILES COC1=CC=C(/C=C/C)C=C1

Formula $C_{10}H_{12}O$ M.Wt 148.2

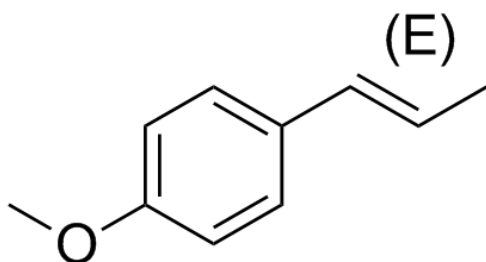
Solubility DMSO: 100 mg/mL (674.76 mM);
Water: 1 mg/mL (6.75 mM; ultrasonic
and warming and heat to 80°C)

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

Trans-Anethole ((E)-Anethole), a phenylpropene derivative isolated from Pimpinella, shows estrogenic activity at lower concentrations and cytotoxic at higher concentrations in cancer cell lines[1][2]. Trans-Anethole ((E)-Anethole) contributes a large component of the odor and flavor of

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

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anise and fennel, anise myrtle, liquorice, camphor, magnolia blossoms, and star anise[3].

[1]. Tabanca N, et al. Estrogenic activity of isolated compounds and essential oils of Pimpinella species from Turkey, evaluated using a recombinant yeast screen. *Planta Med.* 2004 Aug;70(8):728-35. [2]. Nakagawa Y, et al. Cytotoxic and xenoestrogenic effects via biotransformation of trans-anethole on isolated rat hepatocytes and cultured MCF-7 human breast cancer cells. *Biochem Pharmacol.* 2003 Jul 1;66(1):63-73. [3]. Fahlbusch, et al. "Flavors and Fragrances", Ullmann's Encyclopedia of Industrial Chemistry, Weinheim: Wiley-VCH.

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