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**Manuscript NO:** 49977

**Manuscript Type:** ORIGINAL ARTICLE

*Basic Study*

**Superior gallstone dissolubility and safety of tert-amyl ethyl ether over methyl-tertiary butyl ether**

You DD *et al.* Contact litholysis by TAEE

Dong Do You, Suk Joon Cho, Ok-Hee Kim, Jin Sook Song, Kyu-Seok Hwang, Sang Chul Lee, Kee-Hwan Kim, Ho Joong Choi, Ha-Eun Hong, Haeyeon Seo, Tae Ho Hong, Jung Hyun Park, Tae Yoon Lee, Joseph Ahn, Jae-Kyung Jung, Kwan-Young

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Contact litholysis by tert-amyl ethyl ether (TAE) is superior to MTBE in both i



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Methyl tertiary butyl **ether** appears to be a powerful in **vivo** gall stone dissolution agent which, from preliminary studies, is not associated with serious toxicity. Discover the world's research 15 ...

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[https://www.fuelethers.eu/.../2018/10/WHO\\_IPCS\\_Environmental\\_Health\\_Criteria\\_for\\_MTBE.txt](https://www.fuelethers.eu/.../2018/10/WHO_IPCS_Environmental_Health_Criteria_for_MTBE.txt)

**Ethyl** tertiary-butyl **ether** (ETBE), tertiary-amyl methyl **ether** (TAME), tertiary-amyl **ethyl ether** (TAE) and diisopropyl **ether** (DIPE), among others, may supplement, or serve as alternatives to MTBE for oxygenation or octane enhancement purposes and may be found, therefore, in association with MTBE.

## www.science.gov

<https://www.science.gov/topicpages/e/ethyl+tert-butyl+ether.html> ▾

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## tert-butyl methyl ether: Topics by Science.gov

<https://www.science.gov/topicpages/t/tert-butyl+methyl+ether.html> ▾

Sep 01, 2017 · Methyl tert butyl **ether** is anti-angiogenic in both in vitro and in vivo mammalian model systems.. PubMed. Kozlosky, John; Bonventre, Josephine; Cooper, Keith. 2013-08-01. Methyl-tertiary butyl **ether** (MTBE), a well known gasoline oxygenate, and US Food and Drug Administration approved gallstone treatment, has been previously shown to specifically target teleost embryonic angiogenesis.

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## Tert-Butyl ethyl ether | C<sub>6</sub>H<sub>14</sub>O - PubChem

<https://pubchem.ncbi.nlm.nih.gov/compound/Tert-Butyl-ethyl-ether>

Tert-amyl methyl ether (TAME) and ethyl tert-butyl ether (ETBE) were evaluated in 4-week rat inhalation studies sponsored by Amoco Corporation. Target vapor concentrations were 0, 500, 2000, or 4000 ppm for 6 hr per day, 5 days per week, for 4 weeks.

## Tert-Amyl methyl ether | C<sub>6</sub>H<sub>14</sub>O - PubChem

<https://pubchem.ncbi.nlm.nih.gov/compound/Tert-Amyl-methyl-ether>

The biotransformation of methyl tert-butyl ether, ethyl tert-butyl ether, and tert-amyl methyl ether (TAME) was studied in humans and in rats after inhalation of 4 and 40 ppm of MTBE, ETBE, and TAME, respectively, for 4 hours, and the biotransformation of MTBE and TAME was studied after ingestion exposure in humans to 5 and 15 mg in water.

## www.science.gov

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## Methyl tert-butyl ether - Wikipedia

[https://en.wikipedia.org/wiki/Methyl\\_tert-butyl\\_ether](https://en.wikipedia.org/wiki/Methyl_tert-butyl_ether) ▾

Methyl tert-butyl ether (MTBE), also known as tert-butyl methyl ether, is an organic compound with a structural formula (CH<sub>3</sub>)<sub>3</sub>COCH<sub>3</sub>. MTBE is a volatile, flammable, and colorless liquid that is sparingly soluble in water. It has a minty smell vaguely reminiscent of diethyl ether, leading to unpleasant

**Chemical formula:** C<sub>5</sub>H<sub>12</sub>O**Melting point:** -109 °C (-164 °F; 164 K)**Molar mass:** 88.150 g·mol<sup>-1</sup>**Solubility in water:** 42 g/L (20 °C)

## Vapor intrusion risk of fuel ether oxygenates methyl tert ...

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This study used an advanced numerical model to investigate the vapor intrusion potential of fuel ether oxygenates methyl tert-butyl ether (MTBE), tert-amyl methyl ether (TAME), and ethyl tert ...

**Author:** Jie Ma, Desen Xiong, Haivan Li, Yong



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**Author:** Jie Ma, Desen Xiong, Haiyan Li, Yongqi ...

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<https://www.science.gov/topicpages/t/tert-butyl+methyl+ether.html> ▾

Sep 01, 2017 · The toxicokinetics and biotransformation of methyl-tert-butyl ether (MTBE), ethyl-tert-butyl ether (ETBE) and tert-amyl-methyl ether (TAME) in rats and humans are summarized. These ethers are used as gasoline additives in large amounts, and thus, a considerable potential for human exposure exists. After inhalation exposure MTBE, ETBE and TAME ...