# Dimethyl citraconate

<table>
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<tr>
<th><strong>CAS-No.:</strong></th>
<th>617-54-9</th>
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<tbody>
<tr>
<td><strong>Molecular formula:</strong></td>
<td>( \text{C}<em>7\text{H}</em>{10}\text{O}_4 )</td>
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<td><strong>Structure:</strong></td>
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**Synonyms:**
- 2-Butenedioic acid, 2-methyl-, dimethyl ester, (2Z)-
- Dimethyl methyl maleate
- Methylmaleic acid, dimethyl ester

**History:**
- **Publication date:** 2006 (Amendment 40)
- **Previous Publications:** 1976, 2002

**Implementation dates:**
- For new submissions*: Not applicable.
- For existing fragrance compounds*: Not applicable.

*These dates apply to the supply of fragrance mixtures (formulas) only, not to the finished consumer products in the marketplace.

**RECOMMENDATION:**

**FRAGRANCE INGREDIENT PROHIBITION:**

Dimethyl citraconate should not be used as a fragrance ingredient.

**CONTRIBUTIONS FROM OTHER SOURCES:**

NONE TO CONSIDER (SEE ALSO THE SECTION ON CONTRIBUTIONS FROM OTHER SOURCES IN CHAPTER 1 OF THE GUIDANCE FOR THE USE OF IFRA STANDARDS)
**Dimethyl citraconate**

**INTRINSIC PROPERTY DRIVING RISK MANAGEMENT:** DERMAL SENSITIZATION

**EXPERT PANEL FOR FRAGRANCE SAFETY RATIONALE / CONCLUSION:**

The Expert Panel for Fragrance Safety reviewed all the available data for Dimethyl citraconate and recommends not to use Dimethyl citraconate as or in fragrance ingredients in any finished product application.

**REFERENCES:**

The IFRA Standard on Dimethyl citraconate is based on at least one of the following publications:

- The RIFM Safety Assessment on Dimethyl citraconate is available at the RIFM Safety Assessment Sheet Database: [http://fragrancematerialsafetyresource.elsevier.com/](http://fragrancematerialsafetyresource.elsevier.com/).


- Opdyke, D.L.J. (1976), Food and Cosmetics Toxicology 14, 749.

Additional information on the application of IFRA Standards is available in the Guidance for the use of IFRA Standards, publicly available at [www.ifrafragrance.org](http://www.ifrafragrance.org).