

**Hexahydrocoumarin**

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| <b>CAS-No.:</b>  | 700-82-3<br>The scope of this Standard includes, but is not limited to the CAS number(s) indicated above; any other CAS number(s) used to identify this fragrance ingredient should be considered in scope as well. |
| <b>Synonyms:</b> | 2H-1-Benzopyran-2-one, 3,4,5,6,7,8-hexahydro-Coumarin, hexahydro-Coumarin, 3,4,5,6,7,8-hexahydro-1-Cyclohexene-1-propanoic acid, 2-hydroxy-, d-lactone<br>3,4,5,6,7,8-Hexahydro-2H-1-benzopyran-2-one               |

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| <b>History:</b> | Publication date: | 2006 (Amendment 40) | Previous Publications: | 1980<br>2002 |
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| <b>Implementation dates:</b> | For new creation*:  | Not applicable. |
|                              | For existing creation*:   | Not applicable. |
|                              | *These dates apply to the supply of fragrance mixtures (formulas) only, not to the finished consumer products in the marketplace. |                 |

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| <b>RECOMMENDATION:</b> | <b>PROHIBITION</b> |
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| <b>FRAGRANCE INGREDIENT PROHIBITION:</b> | Hexahydrocoumarin should not be used as a fragrance ingredient. |
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| <b>CONTRIBUTIONS FROM OTHER SOURCES:</b> | <b>NONE TO CONSIDER BEYOND TRACES (SEE ALSO THE SECTION ON CONTRIBUTIONS FROM OTHER SOURCES IN CHAPTER 1 OF THE GUIDANCE FOR THE USE OF IFRA STANDARDS)</b> |
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| <b>INTRINSIC PROPERTY DRIVING RISK MANAGEMENT:</b> | <b>DERMAL SENSITIZATION</b> |
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**EXPERT PANEL FOR FRAGRANCE SAFETY RATIONALE / CONCLUSION:**

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

**REFERENCES:**

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

## Hexahydrocoumarin

- The RIFM Safety Assessment on Hexahydrocoumarin if available at the RIFM Fragrance Material Safety Assessment Center: <http://fragrancematerialsafetyresource.elsevier.com>
- Api A.M., Belsito D., Bruze M., Cadby P., Calow P., Dagli M. L., Dekant W., Dent M., Ellis G., Fryer A. D., Fukayama M., Griem P., Hickey C., Kromidas L., Lalko J., Liebler D.C., Miyachi Y., Politano V.T., Renskers K., Ritacco G., Salvito D., Schultz T.W., Sipes I. G., Smith B., Vitale D., Wilcox D.K. (2015). Criteria for the Research Institute for Fragrance Materials, Inc. (RIFM) safety evaluation process for fragrance ingredients. *Food Chem Toxicol.* 2015 Aug;82 Suppl:S1-S19 ([http://fragrancematerialsafetyresource.elsevier.com/sites/default/files/Criteria\\_Document\\_Final.pdf](http://fragrancematerialsafetyresource.elsevier.com/sites/default/files/Criteria_Document_Final.pdf)).
- Salvito D.T., Senna R. J., Federle T.W. (2002). A framework for prioritizing fragrance materials for aquatic risk assessment. *Environ Toxicol Chem.* 2002;21:1301-1308 (<https://www.ncbi.nlm.nih.gov/pubmed/12069318>).

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).