

alpha-Hexyl cinnamic aldehyde

CAS-No.:	101-86-0 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.
Synonyms:	2-Benzylideneoctanal Hexyl cinnamal α -Hexyl cinnamaldehyde Hexyl cinnamic aldehyde α -n-Hexylcinnamic aldehyde Hexyl cinnamyl α -n-Hexyl- β -phenylacrolein Octanal, 2-(phenylmethylene)- Jasmonal H (commercial name)

History:	Publication date:	2020 (Amendment 49)	Previous Publications:	2007 2013
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Implementation dates:	For new creation*:	February 10, 2021
	For existing creation*:	February 10, 2022
	*These dates apply to the supply of fragrance mixtures (formulas) only, not to the finished consumer products in the marketplace.	

RECOMMENDATION:	RESTRICTION
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MAXIMUM ACCEPTABLE CONCENTRATIONS IN THE FINISHED PRODUCT (%):			
Category 1	1.8 %	Category 7A	20 %
Category 2	0.53 %	Category 7B	20 %
Category 3	11 %	Category 8	1.0 %
Category 4	9.9 %	Category 9	19 %
Category 5A	2.5 %	Category 10A	69 %
Category 5B	2.5 %	Category 10B	69 %
Category 5C	2.5 %	Category 11A	38 %
Category 5D	2.5 %	Category 11B	38 %

alpha-Hexyl cinnamic aldehyde

Category 6	5.8 %	Category 12	No Restriction
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FLAVOR REQUIREMENTS:

Due to the possible ingestion of small amounts of fragrance ingredients from their use in products in Categories 1 and 6, materials must not only comply with IFRA Standards but must also be recognized as safe as a flavoring ingredient as defined by the IOFI Code of Practice (www.iofi.org). For more details see chapter 1 of the Guidance for the use of IFRA Standards.

CONTRIBUTIONS FROM OTHER SOURCES:

SEE ANNEX ON CONTRIBUTIONS FROM OTHER SOURCES

INTRINSIC PROPERTY DRIVING RISK MANAGEMENT:

DERMAL SENSITIZATION

RIFM SUMMARIES:

Maximum acceptable concentrations are based on a comprehensive safety assessment, considering various endpoints. Depending on the outcome of the safety assessment, it might be one or more endpoint(s) that will drive the derivation of the concentration levels. If more than one endpoint is of relevance, the maximum acceptable concentrations for each product category are derived from comparing maximum permitted level per endpoint consideration (e.g. dermal sensitization and/or systemic toxicity). Such maximum acceptable concentrations correspond to the lowest level obtained per category.

Additional information is available in the RIFM safety assessment for alpha-Hexyl cinnamic aldehyde, which can be downloaded from the RIFM Fragrance Material Safety Assessment Center: <http://fragrancematerialsafetyresource.elsevier.com/>.

EXPERT PANEL FOR FRAGRANCE SAFETY RATIONALE / CONCLUSION:

The Expert Panel for Fragrance Safety reviewed all the available data for alpha-Hexyl cinnamic aldehyde and recommends the concentrations for the 12 different product categories, which are the maximum acceptable concentrations of alpha-Hexyl cinnamic aldehyde in the various product categories.

REFERENCES:

The IFRA Standard on alpha-Hexyl cinnamic aldehyde is based on at least one of the following publications:

- The RIFM Safety Assessment on alpha-Hexyl cinnamic aldehyde 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

alpha-Hexyl cinnamic aldehyde

(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.