Allyl 3-cyclohexylpropionate

CAS-No.:	2705-87-5 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:	Allyl 3-cyclohexylpropionate 2-Propen-1-yl cyclohexanepropionate Allyl 3-cyclohexylpropanoate Allyl beta-cyclohexylpropionate Allyl β-cyclohexylpropionate Allyl cyclohexanepropionate Allyl cyclohexylpropionate Allyl hexahydrophenylpropionate Cyclohexanepropionic acid, 2-propenyl ester Prop-2-enyl 3-cyclohexylpropanoate Cyclohexylpropionic acid allyl ester

History:	Publication date:	2023 (Amendment 51)	Previous Publications:	Not applicable

Implementation dates:	For new creation*:	March 30, 2024
	For existing creation*:	October 30, 2025
	*These dates apply to the supply of fragrance mixtures (formulas) only, not to the finished consumer products in the marketplace.	

RECOMMENDATION:	**RESTRICTION / SPECIFICATION**

MAXIMUM ACCEPTABLE CONCENTRATIONS IN THE FINISHED PRODUCT (%):			
Category 1	0.085 %	Category 7A	0.70 %
Category 2	0.025 %	Category 7B	0.70 %
Category 3	0.35 %	Category 8	0.040 %
Category 4	0.47 %	Category 9	0.92 %
Category 5A	0.12 %	Category 10A	0.7 %
Category 5B	0.12 %	Category 10B	3.3 %
Category 5C	0.12 %	Category 11A	0.040 %

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Category 5D	0.040 %	Category 11B	0.040 %
Category 6	0.28 %	Category 12	No restriction

FRAGRANCE INGREDIENT SPECIFICATION:	According to the IFRA Specification Standard of Allyl esters, Allyl esters should only be used when the level of free Allylalcohol in the ester is less than 0.1%. This recommendation is based on the delayed irritant potential of Allylalcohol. Please also refer to the IFRA Specification Standard Allyl esters.

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:	**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)**

INTRINSIC PROPERTY DRIVING RISK MANAGEMENT:	**DERMAL SENSITIZATION AND SYSTEMIC TOXICITY**

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 Allyl 3-cyclohexylpropionate, 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 Allyl 3-cyclohexylpropionate and recommends the concentrations for the 12 different product categories, which are the maximum acceptable concentrations of Allyl 3-cyclohexylpropionate in the various product categories.

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In addition, they recommend to use Allyl 3-cyclohexylpropionate according to the specification above mentioned.

REFERENCES:

The IFRA Standard on Allyl 3-cyclohexylpropionate is based on at least one of the following publications:

• The RIFM Safety Assessment on Allyl 3-cyclohexylpropionate 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).

• 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.