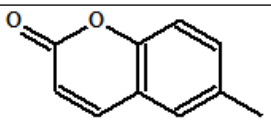
6-Methylcoumarin

CAS-No.:	92-48-8 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.	**Molecular formula:**	$C_{10}H_8O_2$
		Structure:	
Synonyms:	2H-1-Benzopyran-2-one, 6-methyl 6-Methyl-2h-1-benzopyran-2-one 6-Methylbenzopyrone 6-Methyl coumarin 6-Methyl-cis-o-coumarinic lactone 5-Methyl-2-hydroxyphenylpropenoic acid lactone Toncarine (commercial name)		

History:	Publication date:	2006 (Amendment 40)	Previous Publications:	1978 1980 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:	**PROHIBITION**

FRAGRANCE INGREDIENT PROHIBITION:	6-Methylcoumarin 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**

6-Methylcoumarin

	GUIDANCE FOR THE USE OF IFRA STANDARDS)

INTRINSIC PROPERTY DRIVING RISK MANAGEMENT:	PHOTOSENSITIZATION

EXPERT PANEL FOR FRAGRANCE SAFETY RATIONALE / CONCLUSION:

The Expert Panel for Fragrance Safety reviewed all the available data for 6-Methylcoumarin and recommends not to use 6-Methylcoumarin as or in fragrance ingredients in any finished product application.

REFERENCES:

The IFRA Standard on 6-Methylcoumarin is based on at least one of the following publications:

• The RIFM Safety Assessment on 6-Methylcoumarin is available at the RIFM Safety Assessment Sheet Database: 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 (doi: 10.1016/j.fct.2014.11.014). (http://fragrancematerialsafetyresource.elsevier.com/sites/default/files/Criteria_Document_Final.pdf).

• IDEA project (International Dialogue for the Evaluation of Allergens) Final Report on the QRA2: Skin Sensitisation Quantitative Risk Assessment for Fragrance Ingredients, September 30, 2016 (http://www.ideaproject.info/uploads/Modules/Documents/qra2-dossier-final--september-2016.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).

• Kaidbay, K.H. &. Kligman, A.M. (1978), Contact Dermatitis 4, No 5, 277.

• Opdyke, D.L.J. (1979), Food and Cosmetics Toxicology 17, 275.

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.