

## Diphenylamine

CAS-No.:	AS-No.:  122-39-4 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:	Benzeneamine, N-phenyl-							
History: Publication date		on date:	2004 (Amendment 38)		Previous Publications:		Not applicable.	
Implementation dates:		For new creation*:  For existing creation*:  *These dates apply to the supply finished consumer products in t					e.	
RECOMMENDATION:				PROHIBITION				
FRAGRANCE INGREDIENT PROHIBITION:				Diphenylamine should not be used as a fragrance ingredient.				
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 MANAGEM	PROPI ENT:	ERTY DI	RIVING RISK	тохісіту, т	ERATO	GENICITY		

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

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

## **REFERENCES:**

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

- The RIFM Safety Assessment on Diphenylamine 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



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- 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).
- Opdyke, 1978, Food and Cosmetics Toxicology, Volume 16, Supplement 1, Special Issue IV, page 723-727.

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.