## Nitrobenzene

| CAS-No.: | 98-95-3  
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: | C₆H₅NO₂ |
| Structure: | ![Nitrobenzene structure](image) |
| Synonyms: | Benzene, nitro  
Nitrobenzol  
Mirbane oil |

### History:

| Publication date: | 2006 (Amendment 40) |
| Previous Publications: | 1974  
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:

Nitrobenzene 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 GUIDANCE FOR THE USE OF IFRA STANDARDS)
**INTRINSIC PROPERTY DRIVING RISK MANAGEMENT:**

| ACUTE TOXICITY, SKIN TOXICITY |

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

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

**REFERENCES:**

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

- The RIFM Safety Assessment on Nitrobenzene is available at the RIFM Safety Assessment Sheet Database: http://fragrancematerialsafetyresource.elsevier.com/.


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.