# 2,4-Dienals

| CAS-No.: | 764-40-9  
|         | 142-83-6  
|         | 80466-34-8  
|         | 5910-85-0  
|         | 30361-28-5  
|         | 6750-03-4  
|         | 2363-88-4  
|         | 13162-46-4  
|         | 21662-16-8  
|         | 25152-84-5  
|         | 30361-29-6  
|         | 4313-03-5  
|         | 20432-40-0  
|         | 4488-48-6  
|         | 5577-44-6  
|         | 5910-87-2  

The scope of the Standard covers but is not limited to the list of CAS numbers enumerated above (including all their geometric isomers).

**Synonyms:** Including but not limited to:
- 2,4-Pentadienal
- 2,4-Hexadienal
- 2,4-Heptadienal
- 2,4-Octadienal
- 2,4-Nonadienal
- 2,4-Decadienal
- 2,4-Undecadienal
- 2,4-Dodecadienal
- trans,trans-2,4-Decadienal
- trans,trans-2,4-Undecadienal
- 2,4-Heptadien-1-al

(including all geometric isomers)

**History:**

<table>
<thead>
<tr>
<th>Publication date:</th>
<th>2013 (Amendment 47)</th>
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<tbody>
<tr>
<td>Previous Publications:</td>
<td>Not applicable.</td>
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</table>

**Implementation dates:**

| For new creation*: | August 10, 2013 |
| For existing creation*: | August 10, 2014 |

*These dates apply to the supply of fragrance mixtures (formulas) only, not to the finished consumer products in the marketplace.

This IFRA Standard represents the group of 2-4-Dienals and replaces the existing individual IFRA Standards for the materials listed above. This new group also includes any other 2,4-Dienals.

**RECOMMENDATION:** PROHIBITION
2,4-Dienals

FRAGRANCE INGREDIENT PROHIBITION:
2,4-Dienals 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)

2,4-Decadienal (CAS number 2363-88-4) has been found in natural extracts but only at trace levels.

INTRINSIC PROPERTY DRIVING RISK MANAGEMENT: INSUFFICIENT DATA

EXPERT PANEL FOR FRAGRANCE SAFETY RATIONALE / CONCLUSION:
The Expert Panel for Fragrance Safety reviewed all the available data for 2,4-Dienals and recommends not to use 2,4-Dienals as or in fragrance ingredients in any finished product application until additional data is available and considered sufficient to support its safe use.

REFERENCES:
The IFRA Standard on 2,4-Dienals is based on at least one of the following publications:

• The RIFM Safety Assessment on 2,4-Dienals if available at the RIFM Fragrance Material Safety Assessment Center: 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.