Aldehydes

Isobutyraldehyde

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Isobutyraldehyde

**Trade name:** Isobutyraldehyde  
**Chemical name:** Isobutanal; 2-methylpropanal

**CN:** 2912 19 00  
**CAS:** 78-84-2  
**PKWiU:** 20.14.61.0

Isobutyraldehyde is a colourless and clear liquid, with the specific odour which is pungent, acrid and penetrating.

**Application(s):**

Isobutyraldehyde makes a feed for the synthesis of alcohols, acids, amines and esters. It is used in the chemical processes for the production of plasticisers, pharmaceuticals, crop protection products, synthetic resins, fragrances, solvents and various additives which are used in numerous branches of the industry (antioxidants, wetting agents, perfume components, improving agents, etc.).

### General requirements:

Isobutyraldehyde is a colourless and clear liquid, with the specific odour which is pungent, acrid and penetrating.

### Specification:

<table>
<thead>
<tr>
<th>Item</th>
<th>Specification</th>
<th>Value</th>
<th>Unit</th>
<th>Test method</th>
<th>Foreign equivalent</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Colour,</td>
<td>max. 15</td>
<td>[Pt-Co]</td>
<td>PN-C-04534-01:1981</td>
<td>ISO 6271</td>
</tr>
<tr>
<td>2</td>
<td>Acid number,</td>
<td>max. 2</td>
<td>[mg KOH/g]</td>
<td>ZAK’s internal method</td>
<td>No equivalent</td>
</tr>
<tr>
<td>3</td>
<td>n-Butyraldehyde, content,</td>
<td>max. 0.2⁴</td>
<td>[wt %]</td>
<td>ZAK’s internal method(GC)</td>
<td>GC</td>
</tr>
<tr>
<td>4</td>
<td>Water content,</td>
<td>max. 1.5</td>
<td>[wt %]</td>
<td>PN-ISO 760:2001</td>
<td>ISO 760</td>
</tr>
<tr>
<td>5</td>
<td>Isobutyraldehyde,</td>
<td>min. 99.5⁵</td>
<td>[wt %]</td>
<td>ZAK’s internal method(GC)</td>
<td>GC</td>
</tr>
</tbody>
</table>

¹ These values give no consideration to the water content in the product