



## Specification

| Concerning Product:                     |  |
|---|--|
| Article number                          | 15687271NPB  |
| Trade name / designation / denomination | Ibuprofen BP   |
| CAS number                              | 15687-27-1   |
| Other names / synonyms                  | •(0)-(4-Isobutylphenyl)Propanoic Acid; •(0)-Ibuprofen; •2-(4-Isobutylphenyl)-propionic acid; •2-(4-Isobutylphenyl)propanoic Acid; •2-(4-Isobutylphenyl)propanoic acid; •2-(4-Isobutylphenyl)propionic Acid; •2-(4-isobutylphenyl)propanoic acid; •2-[4-(2-methylpropyl)phenyl]propanoic acid; •4-Isobutyl-alpha-methylphenylacetic acid; •IBUPROFEN; |
| EC number                               | 239-784-6  |
| Customs tariff number / CN code / TARIC | 29163990   |
| Molecular weight [g / mol]              | 206.28082  |
| Formula                                 | C <sub>13</sub> H <sub>18</sub> O <sub>2</sub>   |

| Parameter                 | Specification   | Unit    |
|---------------------------|---|---------|
| <b>Organoleptic test</b>  |   |         |
| Appearance of solution    | clear and colourless  |         |
| Appearance                | White or almost White Crystalline Powder or Colourless Crystals |         |
| <b>Physical parameter</b> |   |         |
| Loss on drying            | ≤ 0,5   | %       |
| Specific Optical Rotation | 0,05 – 0,05   | °       |
| Bulk density              | Tapped 0,45 – 0,70  | g/ml    |
| Bulk density              | Untapped 0,30 – 0,55  | g/ml    |
| <b>Identity</b>           |   |         |
| Assay                     | 98,5 – 101,0  | %       |
| Melting Point (identity)  | 75 – 78   | °C      |
| <b>Impurities</b>         |   |         |
| Sulphated ash             | ≤ 0,1   | %       |
| Related substances        | Impurity A: ≤ 0,15  | % [w/w] |
| Related substances        | Impurity F: (By GC) ≤ 0,1                                       | % [w/w] |
| Related substances        | Impurity J: ≤ 0,15  | % [w/w] |
| Related substances        | Impurity N: ≤ 0,15  | % [w/w] |
| Related substances        | Total impurities ≤ 0,2  | % [w/w] |
| Related substances        | Unspecified impurities ≤ 0,5                                    | % [w/w] |
| <b>Residual Solvents</b>  |   |         |
| Residual solvents         | Acetone ≤ 100   | ppm     |
| Residual solvents         | Benzene ≤ 100   | ppm     |
| Residual solvents         | Benzol ≤ 100  | ppm     |
| Residual solvents         | hexane ≤ 100  | ppm     |
| Residual solvents         | Isopropyl Alcohol ≤ 80  | ppm     |
| Residual solvents         | Trichlorethylen ≤ 100   | ppm     |
| Residual solvents         | Trichloro ethylene ≤ 100  | ppm     |

### Annotation:

A \*Impurity – F is irrelevant to the manufacturing process employed and is omitted in routine analysis

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 28. May. 2020

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