

# Potassium chlorate

## Potassium chlorate

Potassium chlorate (KClO<sub>3</sub>) is formed through electrolysis and crystallization, with final properties formed through grinding and sieving. Potassium chlorate is generally used in pyrotechnics and the match industry.

**CAS number**  
3811-04-9

**Molecular weight**  
122.55

**Molecular formula**  
KClO<sub>3</sub>

### Characteristics

Boiling point	400 °C
Bulk density	1200 - 1400 kg/m <sup>3</sup>
Density	2340 kg/m <sup>3</sup>
Melting point	356 °C

### Applications

With increasingly high demands on safety, efficiency and quality of the end products, producers of pyrotechnics are increasing their demands on raw materials and their suppliers. With its supreme quality product, high service level and advanced knowledge of Health/Safety/Environment, Nouryon has proven to be an invaluable partner to the pyrotechnical industry. Additionally we produce several grades of potassium chlorate that are tailor-made to meet the specific demands of match manufacturers in all parts of the world. This is the result of a long and close cooperation with manufacturers around the globe.

### Storage

Keep containers tightly closed in a dry, cool, well ventilated and fireproof area. See SDS for further details.

### Packaging and transport

To ensure product quality all the way to our customers, we offer different packaging, on stretch wrapped pallets: 25 kg PE coated, three layer paper bags and 65 kg steel drums with inner PE liner.

Proper shipping name	Potassium chlorate
UN number	1485

### Safety and handling

Potassium chlorate should be handled with care, as the product may pose risks if handled improperly. An understanding of its proper use is thus very important. See product SDS for further details or request our product safety folder.

All information concerning this product and/or suggestions for handling and use contained herein are offered in good faith and are believed to be reliable. Nouryon, however, makes no warranty as to accuracy and/or sufficiency of such information and/or suggestions, as to the product's merchantability or fitness for any particular purpose, or that any suggested use will not infringe any patent. Nouryon does not accept any liability whatsoever arising out of the use of or reliance on this information, or out of the use or the performance of the product. Nothing contained herein shall be construed as granting or extending any license under any patent. Customer must determine for himself, by preliminary tests or otherwise, the suitability of this product for his purposes. The information contained herein supersedes all previously issued information on the subject matter covered. The customer may forward, distribute, and/or photocopy this document only if unaltered and complete, including all of its headers and footers, and should refrain from any unauthorized use. Don't copy this document to a website.

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The Nouryon logo consists of a stylized orange 'N' followed by the word 'ouryon' in a lowercase, sans-serif font. The 'N' is significantly larger and more prominent than the rest of the text.