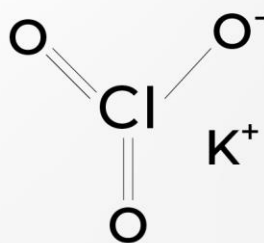


POTASSIUM CHLORATE



PRODUCT IN FOCUS



Potassium Chlorate

INTRODUCTION

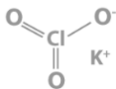
Potassium chlorate holds significant importance across various industries due to its diverse applications. This white crystalline compound has been utilized for centuries as an essential ingredient in the production of matches, fireworks, and explosives, owing to its ability to release oxygen upon decomposition. Additionally, it plays a role in pyrotechnics and as an oxygen source for emergency oxygen systems.

Manufacture

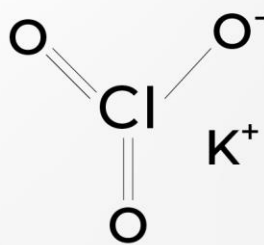
Potassium Chlorate is produced by the salt metathesis reaction of sodium chlorate and Potassium Chloride. The reaction is driven by the low solubility of potassium chlorate in water.

Applications

- ✔ Along with silver fulminate it is used in noise-makers such as snappers and crackers
- ✔ As an oxidiser in smoke grenades
- ✔ To generate oxygen gas in college and school labs
- ✔ In oxygen candles or chlorate candles
- ✔ In limelight to supply oxygen
- ✔ As a pesticide & weed killer
- ✔ In growling gummy bears
- ✔ As a fertiliser as an effective alternative for ammonium nitrate
- ✔ In the manufacturing of paper
- ✔ In the production of matches
- ✔ In the making of explosives
- ✔ In cultivation, forcing the blossoming stage of the longan trees, causing it to produce fruits in warmer climates

Synonym	Chloric acid potassium(+1) (1:1); Chloric acid potassium salt (1:1)
CAS no.	3811-04-9
EINECS no.	223-289-7
Molecular formula	KClO ₃
Molecular weight	122.55
Structure	

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SPECIFICATIONS

Test	Unit	Specification
Assay	%	Min 99.50
Chloride (as NaCl)	%	Max 0.025
Bromates (as BrO ₃)	%	Max 0.08
Sodium	%	Max 0.04
Moisture (at 105 °C)	%	Max 0.05
Insoluble Matters	%	Max 0.01
pH	-	5.0 – 8.0
Hypochlorites	-	Should pass the test
Heavy Metals	-	Should pass the test
Alkaline Earths	-	Should pass the test
Tricalcium Phosphate (TCP)*	%	0.25 – 0.45
Particle Size Distribution		
> 180 µm	%	≤ 1.0
75 - 180 µm	%	25 – 35
45 - 75 µm	%	15 – 35
< 45 µm	%	40 – 50

* TCP : Anti caking agent; Product available without Anti-caking agent as well

STORAGE

Store at 5 - 25°C, in a dry and well-ventilated place far from sources of heat and direct Solar light

PACKING

25 kg bags

REACH Status

Registered

No matter the quantity you need, our exceptional quality and service will make ExSyn your supplier of choice! If you need any additional information or SDS, please contact us.