

Potassium Formate

98% PURITY

50 KG BAG

HCOOK / CHKO_2 • Industrial Grade Inorganic Salt • CAS: 590-29-4

PRODUCT OVERVIEW

Experience the illustrious quality of our **Potassium Formate** (**HCOOK**), engineered to deliver superior performance, 98% purity, and rapid aqueous dissolution. Presented as a fine, white crystalline powder, this essential inorganic formate salt is highly hygroscopic and deliquescent, yielding clear, stable solutions with excellent pH buffering (pH 7–11 in 10% solution).

PURITY GRADE
≥ 98% Minimum

PHYSICAL FORM
White Fine Powder

SOLUBILITY
Highly Water-Soluble

EXCEPTIONAL FEATURES & VERSATILE USES

- **Oilfield Drilling & Completion:** Functions as a high-density, solids-free drilling brine base that stabilizes shale formations and protects reservoirs.
- **Eco-Friendly Airport Deicing:** Non-corrosive and biodegradable alternative to chloride salts, providing exceptional freeze-point depression on runways and bridges.
- **Industrial Synthesis & Heat Transfer:** Used in textile dyeing, leather tanning, secondary refrigerants, and chemical manufacturing.
- **Superior Clarity & Stability:** Dissolves cleanly with low moisture content and 24-month shelf life when properly sealed.



Multifaceted Perspective: Fine White Crystalline Powder, Laboratory Glassware Prep, and Sealed Reagent Sample

COMMERCIAL & TRADE INFORMATION

Minimum Order Qty (MOQ)	Payment Terms	Supply Ability	Delivery Lead Time	Main Domestic Market
100 Kilograms	Cash in Advance (CID)	5,000 Kilograms / Month	7 Days Prompt Dispatch	All India (Nationwide)

TECHNICAL SPECIFICATIONS & CHEMICAL PROPERTIES

Physical & Chemical Properties		Classification, Packaging & Safety	
Chemical Name	Potassium Formate	CAS Number	590-29-4
Chemical Formula	<i>HCOOK (CHKO₂)</i>	EINECS No.	209-677-9
Other Names	Formic acid, potassium salt	HS Code	29151200
Purity	98% Minimum	Molecular Weight	84.12 g/mol
Form & Appearance	White fine powder / Crystalline	Classification / Type	Formate salt / Inorganic salt
Odor & Taste	Odorless / Slightly saline	Grade & Standard	Industrial Grade / Industrial Standard
Density	1.91 g/cm ³	Hygroscopic Nature	Yes (strongly deliquescent)
Melting Point	165 °C	Toxicity Profile	Regulated chemical; non-toxic in use
Boiling Point	Not applicable (decomposes)	Packaging Details	50 Kg multi-ply moisture-proof bags
pH Level	7.0 – 11.0 (10% aqueous solution)	Shelf Life	24 Months
Solubility	Highly soluble in water (clear solution)	Storage Conditions	Keep tightly closed in a cool, dry place
Particle Size	Fine granules / powder		

DOMESTIC MARKET REACH, PACKAGING & QUALITY ASSURANCE

Every batch of Potassium Formate conforms strictly to industrial quality regulations and standard certifications. Shipped in robust 50Kg moisture-barrier bags to prevent clumping and preserve deliquescent integrity. Complete batch documentation, Certificate of Analysis (CoA), and Material Safety Data Sheets (MSDS) accompany each consignment.

FREQUENTLY ASKED QUESTIONS (FAQS)

Q: How should Potassium Formate be stored to maintain its quality?
A: Store in tightly sealed original packaging in a cool, dry location to prevent ambient moisture absorption, as the product is highly hygroscopic and deliquescent.
Q: What are the key industrial uses of Potassium Formate?
A: It is widely utilized in oil & gas drilling and completion fluids, environmentally friendly airport runway deicing, and specialized chemical synthesis.
Q: What makes Potassium Formate special compared to other formate salts?
A: Its outstanding clarity in solution, non-toxic environmental profile, and exceptional water solubility make it an ideal, safe, and efficient choice.
Q: What is the benefit of the fine particle size in this product?
A: Fine granules ensure rapid dissolution rates and homogeneous solution blending, significantly enhancing efficiency in field operations.
Q: When can I expect delivery after placing an order?
A: Orders are dispatched promptly upon confirmation under Cash in Advance (CID) terms, with typical delivery within 7 days across all Indian states.
Q: Where is your Potassium Formate sourced and supplied from?
A: Sourced and supplied by a reputable Indian chemical distributor, meeting stringent industrial quality certifications and compliance benchmarks.