

Potassium Chloride

CAS 7447-40-7 · KCl · MOP 60% K₂O min (FCO) / technical

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1. Product identity

Product name	Potassium Chloride
Synonyms	KCl, muriate of potash, MOP, potassium chloride powder, potash fertiliser
C.A.S. number	7447-40-7
Molecular formula	KCl
Molecular weight	74.55 g/mol
Grade supplied against	MOP 60% K ₂ O min (FCO) / technical
Appearance	Odourless crystalline solid or granules with a strong saline taste. Chemically pure material is white to colourless; MOP / technical fertiliser grade is commonly off-white, pink or red (Nutrien Muriate of Potash SDS lists colour as off-white, pink or red). Hygroscopic.
Product group	Industrial Salts & Inorganics
HSN code	3104 20 00
Country of origin	As stated on the producer's documents for the lot supplied; confirmed at offer stage
Packing	50 kg bag · 1 MT jumbo
Storage	Store in a dry location. Keep containers tightly closed and sealed - the product absorbs moisture on long-term storage and will cake. Keep away from moisture ingress and from metals it may corrode. No special fire precautions required (non-combustible).

2. Analytical specification

S. No.	Test parameter	Specification	Method
1	Description	Odourless crystalline solid or granules with a strong saline taste. Chemically pure material is white to colourless; MOP / technical fertiliser grade is commonly off-white, pink or red (Nutrien Muriate of Potash SDS lists colour as off-white, pink or red). Hygroscopic.	Visual
2	Identification	Conforms to the substance supplied	Instrumental or chemical test, per method agreed
3	Assay / grade	MOP 60% K ₂ O min (FCO) / technical	Titrimetry or instrumental, per method agreed
4	Physical state	Solid (crystalline)	Visual
5	Solubility in water	Freely soluble. 347-355 g/L at ambient temperature (Nutrien SDS); 35.5 g/100 g water at 25 C (CRC via PubChem).	Per the test method agreed

S. No.	Test parameter	Specification	Method
6	pH	7 to 9 in a 10 % w/w aqueous solution (Nutrien SDS). PubChem records 'pH about 7' without stating a concentration. Essentially neutral.	Potentiometry on an aqueous suspension
7	Relative density	1.988 g/cm ³ (true density, 25 C, CRC via PubChem; ICSC 1.98 g/cm ³). Bulk density of MOP granules 993-1201 kg/m ³ (62-75 lb/ft ³ , Nutrien SDS).	Pyknometry or gas displacement
8	Melting / freezing point	770 C (Nutrien SDS 770 C / 1418 F; ILO ICSC 1450 gives 770-773 C; CRC via PubChem 771 C)	Thermal analysis
9	Boiling point	1420 C (Nutrien SDS). PubChem/CRC records it as subliming at 1500 C rather than boiling.	Distillation range
10	Flash point	Not flammable	Not applicable — the substance is not combustible
11	Additional parameters	To the specification agreed before order	As agreed

3. Transport classification

Not regulated · Class Not regulated · Packing group Not regulated

Proper shipping name: Not regulated. The Nutrien Muriate of Potash SDS states 'Not regulated' for UN number and for US DOT, ADR/TDG, IMDG and IATA. ILO ICSC 1450 gives no UN transport entry. Potassium chloride is not a dangerous good for transport.

What this document is. This is a product specification sheet. It states the grade this material is supplied against, its packing and its identity. **It is not a certificate of analysis, it carries no test results, and it certifies no batch.** Tested values for the consignment actually loaded appear on the batch certificate of analysis issued against that batch, which travels with the despatch documents. Identity and physical data are drawn from PubChem, the ECHA CLP inventory and ILO safety cards; the producer's documents for the grade quoted govern. Velora Chemicals Private Limited is a bulk supplier and trader, not a manufacturer.