

## Potassium chloride

Formula KCl

Regulatory and technical documentation GOST 4234-77

Appearance white crystalline powder

### Quality indicator

Name of indicator	Requirements GOST		
	Chemically Pure Grade	Analytical Pure Grade	Pure Grade
1. Mass fraction of potassium chloride (KCl) in the calcined chemical, %, $\geq$	99,8	99,8	99,8
2. Mass fraction of water insoluble substances, %, $\leq$	0,005	0,010	0,020
3. Mass fraction of losses on ignition, %, $\leq$	0,5	0,8	0,8
4. Mass fraction of free acids (HCl), %, $\leq$	0,002	0,002	not normalized
5. Mass fraction of free alkalies (KOH), %, $\leq$	0,003	0,003	not normalized
6. Mass fraction of total nitrogen (N), %, $\leq$	0,0005	0,0010	0,0010
7. Mass fraction of sulphates (SO <sub>4</sub> ), %, $\leq$	0,002	0,005	0,010
8. Mass fraction of phosphates (PO <sub>4</sub> ), %, $\leq$	0,0005	0,0020	0,0020
9. Mass fraction of chlorates and nitrates (ClO <sub>3</sub> ), %, $\leq$	0,0012	0,0012	0,0024
10. Mass fraction barium (Ba), %, $\leq$	0,001	0,005	not normalized
11. Mass fraction of ferrum (Fe), %, $\leq$	0,0001	0,0003	0,0005
12. Mass fraction of magnesium (Mg), %, $\leq$	0,0005	0,0020	0,0050
13. Mass fraction of arsenic (As), %, $\leq$	0,00004	0,00010	not normalized
14. Mass fraction of heavy metals (Pb), %, $\leq$	0,0005	0,0005	0,0005
15. Mass fraction of sodium (Na), %, $\leq$	0,2	0,4	not normalized.
16. Mass fraction of calcium (Ca), %, $\leq$	0,001	0,005	0,010