

Catalog Number: 151944, 191427, 194726, 194844

Potassium Chloride

Molecular Formula: KCl

Molecular Weight: 74.55

CAS # 7447-40-7

Physical Description: White crystalline powder

Solubility: Soluble in water (1 g/3 ml - clear, colorless solution), boiling water (1 g/1.8 ml), glycerol (1 g/14 ml), or ethanol (1 g/250 ml); insoluble in ether or acetone; hydrochloric acid, sodium or magnesium chlorides diminish its solubility in water.¹

Description: A salt commonly used in the preparation of phosphate buffered saline and for the extraction and solubilization of proteins.^{3,5} A good potassium source.^{1,4} Also used in the hypotonic KCl-propidium iodide protocol for univariate analysis of metaphase chromosomes²; dissociation of eukaryotic ribosomes into subunits by high concentrations of potassium (0.3-1.0 M)⁶; preparation of mitochondria, provides an ionic osmotic support for those tissues that assume a gelatinous consistency upon homogenization.⁷

Availability:

Catalog Number	Description	Size
151944	Potassium Chloride, purity approximately 99%	250 g 500 g 1 kg 5 kg
194726	Potassium Chloride, cell culture reagent, purity approximately 99%	250 g 500 g 1 kg 5 kg
194844	Potassium Chloride, molecular biology reagent, purity approximately 99%	500 g 1 kg 5 kg
191427	Potassium Chloride, ACS	100 g

	Reagent Grade	500 g 1 kg 5 kg
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References:

1. *Merck Index*, **12th Ed.**, No. 7783.
2. Cram, L.S., et al., *Meths. Cell Biol.*, **v. 33**, 369 (1990).
3. Garcia-Hernandez, M., et al., *J. Biol. Chem.*, **v. 269**, 20744-20749 (1994).
4. Henshaw, E.C. and Panniers, R., *Meths. Enzymol.*, **v. 101**, 616 (1983).
5. Huvos, P. and Cox, R.A., *Biochim. Biophys. Acta*, **v. 383**, 421-426 (1975).
6. Labowitz, A.M., *Meths. Enzymol.*, **v. 59**, 421 (1979).
7. Nedergaard, J. and Cannon, B., *Meths. Enzymol.*, **v. 55**, 3 (1979).