



Product Information

Potassium chloride

Product Number **P 4504**
Store at Room Temperature

Product Description

Molecular Formula: KCl
Molecular Weight: 74.55
CAS Number: 7447-40-7

Potassium chloride is a widely used reagent in biochemistry and molecular biology. It is a component of phosphate buffered saline (PBS, Product No. P 3813) and of polymerase chain reaction (PCR) buffer (50 mM KCl).¹ KCl is also used in studies of ion transport and potassium channels.^{2,3}

KCl is also utilized in the solubilization, extraction, purification, and crystallization of proteins.^{4,5,6,7} The use of KCl in the crystallization of histone core octamers has been reported.⁸

Precautions and Disclaimer

For Laboratory Use Only. Not for drug, household or other uses.

Preparation Instructions

This product is soluble in water (200 mg/ml), yielding a clear, colorless solution. It is also soluble in glycerol.⁹

Storage/Stability

The density of a saturated aqueous KCl solution at 15 °C is 1.172 g/ml. Solutions of KCl may be autoclaved.¹

References

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4. Huvos, P., and Cox, R. A., Solution of ribosomal proteins under mild conditions. *Biochim. Biophys. Acta*, **383(4)**, 421-426 (1975).
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