**Potassium bromide**

**Product Number**  P 5510  
Store at Room Temperature

**Product Description**
Molecular Formula: KBr  
Molecular Weight: 119.0  
CAS Number: 7758-02-3  
Melting Point: 730 °C  
Density: 2.75 g/cc

This product is designated as IR grade. It has been tested to be suitable for use in infrared spectroscopy and in Fourier Transform infrared (FT-IR) spectroscopy.

Potassium bromide is a salt that is used in the manufacture of photographic papers and plates, and in process engraving. KBr is also utilized in the characterization of compounds by infrared spectroscopy.

KBr has been used in the isolation of plant plasma membrane proteins, insect high density lipoproteins, and histidine-tagged apoflavoproteins. Capillary electrophoresis of double stranded DNA in isoelectric buffers in the presence of competing, nonamphoteric ion sources such as KBr has been studied.

**Precautions and Disclaimer**
For Laboratory Use Only. Not for drug, household or other uses.

**Preparation Instructions**
This product is soluble in water (100 mg/ml), yielding a clear, colorless solution. It is also soluble in glycerol (217 mg/ml). Aqueous KBr solutions are neutral pH.

**Procedure**
This product can be used for diffusive reflective IR (whereby the KBr powder is mixed with the product) as follows:

1. Grind the KBr powder very fine in an agate mortar and pestle.
2. Dry the ground KBr in a vacuum oven for approximately 3 hours at 75-80 °C.
3. Cool the product in a desiccator.
4. Make a KBr pellet and obtain the IR spectrum to ensure that a baseline with no peaks (no contaminants) is obtained.

**References**
1. The Merck Index, 12th ed., Entry# 7780.