



POTASSIUM BICARBONATE

Formula	: KHCO ₃				
Molecular weight	: 100.11				
Synonyms	: Potassium hydrogen carbonate.				
Bulk density	: 1.15 kg/dm ³ approx.				
pH (20°C, 5%)	: 8.0 ca.				
Water solubility	: increases with the temperature according to the following table:				
	t °C	5	25	35	50
	g KHCO ₃ /100 g soln	20.2	26.8	29.6	34.5

QUALITATIVE CHARACTERISTICS

Appearance	white crystalline powder	
Assay	% KHCO ₃	99-101
Loss on drying	%	< 0.25
Water-insoluble substances	mg/kg	< 50
Iron	mg/kg as Fe	< 10
Heavy metals	mg/kg as Pb	< 3
Arsenic	mg/kg as As	< 3
Lead	mg/kg as Pb	< 2
Mercury	mg/kg as Hg	< 1

The indicated values are intended as determined according to internal analysis methods.

STANDARD PACKAGING

25 kg polyethylene bags

STORAGE

Store the product in its original container in a dry, cool and well-ventilated place away from heat sources or sunlight; preferably store at around 20°C and in any case not exceeding 30°C temperatures.

If heated above 100°C it decomposes developing carbon dioxide.

If exposed to humidity the product absorbs water with the consequence that it can harden and form lumps; however, it does not deteriorate either chemically or biologically.

MAIN USES

Component of fire-extinguisher powders.

In chemistry: catalyst in polymerization of synthetic fibres or dehydrogenation of olefins, in water-based adhesive resins and coatings, high-temperature polymer blowing agents.

In detergents, as component in washing powder and dishwasher tabs.

In agriculture, as a source of potassium in fertilizer formulations.

FOR HANDLING INFORMATION PLEASE CONSULT THE SAFETY DATA SHEET.

THIS TECHNICAL DATA SHEET IS IDENTIFIED AS **KBC 1 (1124) E**