



## Specification

Concerning Product:	
Article number	298146LPEL
Trade name / designation / denomination	Kaliumhydrogencarbonat
CAS number	298-14-6
Other names / synonyms	•Kalium Bicarbonat E 501; •Potassium bicarbonate; •potassium hydrogen carbonate; •potassium hydrogencarbonate;
EC number	206-059-0
Customs tariff number / CN code / TARIC	28364000
Molecular weight [g / mol]	100,12
Formula	KHCO <sub>3</sub> CHKO <sub>3</sub>

Parameter	Specification	Unit
<b>Organoleptic test</b>		
Appearance of solution	clear and colourless	
Appearance	white crystalline powder	
<b>Physical parameter</b>		
Density	~ 2,17*	g/ml
Substances insoluble	in H <sub>2</sub> O: ≤ 50	ppm
Loss on drying	≤ 0,2	%
pH value	8,0 – 8,6	
Bulk density	gestampft / tamped: 1140 – 1250	g/ml
Bulk density	lose / loose: 990 – 1120	g/ml
Solubility	@ 20°C: ~ 25%*	
Solubility	@ 60°C: ~ 40%*	
Solubility	in water free soluble, almost insoluble in Ethanol	
<b>Identity</b>		
Assay	KHCO <sub>3</sub> : 99,5 – 101,0	%

Identification	complies	
<b>Impurities</b>		
Heavy Metals (as Pb)	≤ 3	ppm
Sulphates (SO <sub>4</sub> )	≤ 20	ppm
Impurity	CO <sub>3</sub> : conforms	
Impurity	K <sub>2</sub> CO <sub>3</sub> : ≤ 2,5	%
Impurity	NH <sub>4</sub> : ≤ 20	ppm
<b>Elemental Impurities</b>		
Arsenic (As)	≤ 1	ppm
Calcium (Ca)	≤ 20	ppm
Chlorides (Cl)	≤ 10	ppm
Iron (Fe)	≤ 10	ppm
Mercury (Hg)	≤ 1	ppm
Sodium (Na)	≤ 0,025	%

**Annotation:**

\* only available as a typical value

**Supplemental information:**

**Complies with monographie:** EP, FCC, E 501(ii)

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 27. Jul. 2021

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