



Specification

Concerning Product:	
Article number	584087MPELV
Trade name / designation / denomination	Kaliumcarbonat, Pulver, EP, E501(i)
CAS number	584-08-7
Other names / synonyms	•dipotassium carbonate; •potassium carbonate;
EC number	209-529-3
Customs tariff number / CN code / TARIC	28364000
Molecular weight [g / mol]	138,21
Formula	K ₂ CO ₃ CK ₂ O ₃
Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. IF IN EYES: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. Wash with plenty of soap and water.	

Parameter	Specification	Unit
Organoleptic test		
Appearance of solution	complies	
Appearance	white crystalline powder	
Physical parameter		
Density	ca. 2,4	g/ml *
Loss on drying	≤ 0,8	%
Melting range	≥ 890	°C *
Bulk density	550 – 650	g/L
Solubility	in 100g H ₂ O @ 20°C: ca. 110 g	% *
Solubility	in 100g H ₂ O @ 60°C: ca. 127 g	% *
Identity		
Assay	99 – 100	%
Identification	complies	
Impurities		
Heavy Metals (as Pb)	≤ 1	ppm
Sulphates (SO ₄)	≤ 50	ppm

Elemental Impurities		
Arsenic (As)	≤ 1	ppm
Calcium (Ca)	≤ 100	ppm
Chlorides (Cl)	≤ 30	ppm
Iron (Fe)	≤ 5	ppm
Mercury (Hg)	≤ 1	ppm
Sodium (Na)	≤ 0,25	%
Lead (Pb)	≤ 1	ppm
Silicon (Si)	≤ 20	ppm
Particle size distribution		
Particles	< 100µm 80 – 90	%*

Annotation:

* only available as a typical value

Supplemental information:

Note: Decomposition temperature: approx. 891 °C*

Complies with monographie: EP, E 501(i)

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 20. Sep. 2024

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