



Specification

Concerning Product:	
Article number	584087MPELUV
Trade name / designation / denomination	Kaliumcarbonat, Pulv, EP, FCC, E 501(ii)
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	clear and colorless	
Appearance	white crystalline powder	
Physical parameter		
Density	ca. 2,17	g/ml *
Substances insoluble	in H ₂ O: ≤ 50	ppm
Loss on drying	≤ 0,2	%
pH value	8,0 – 8,5	
Bulk density	lose: 1,25 – 1,35	g/cm ³
Solubility	(@ 20°C): ca. 33	% *
Solubility	(@ 60°C): ca. 67	% *
Solubility	freely soluble in water, almost insoluble in ethanol (96%)	
Identity		
Assay	KHCO ₃ : 99,5 – 101,0	%
Identification	complies	
Impurities		
Heavy Metals (as Pb)	≤ 3	ppm
Nitrates	≤ 20	ppm
Sulphates (SO ₄)	≤ 20	ppm
Impurity	CO ₃ : conforms	
Impurity	K ₂ CO ₃ : ≤ 2,5	%

Elemental Impurities		
Arsenic (As)	≤ 1	ppm
Calcium (Ca)	≤ 20	ppm
Chlorides (Cl)	≤ 10	ppm
Iron (Fe)	≤ 10	ppm
Mercury (Hg)	≤ 1	ppm
Sodium (Na)	≤ 0,025	%
Lead (Pb)	≤ 1	ppm
Particle size distribution		
Particles	(>500µm) ≤ 5	%
Particles	ca. 15µm	%

Annotation:

* only available as a typical value

Supplemental information:

Note: Decomposition temperature: ca. 198 °C *

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

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 19. Jul. 2024

LF-Basis: 4 (2024-07-18)

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