




## Specification

Concerning Product:	
Article number	1314132MPEU
Trade name / designation / denomination	Zinkoxid, EP, USP
CAS number	1314-13-2
Other names / synonyms	•ZINC OXIDE, ACS; •Zinc Oxide, FCC; •Zinc Oxide, Powder, Reagent, ACS; •Zinc Oxide, Technical; •Zinc Oxide, USP; •Zinc oxide; •Zinc oxide, (metals basis); •Zinc oxide, 99. (metals basis); •Zinc oxide, ACS, 99. min; •Zinc oxide, Puratronic, 99. (metals basis);
EC number	215-222-5
EC index number	030-013-00-7
Customs tariff number / CN code / TARIC	28170000
Molecular weight [g / mol]	81,39
Formula	ZnO
<b>Warning</b>  3077, 9 (Verschiedene gefährliche Stoffe und Gegenstände),	
Very toxic to aquatic life with long lasting effects. Avoid release to the environment. Collect spillage. Dispose of contents/container in accordance with local/regional/(inter)national regulations.	

Parameter	Specification	Unit
<b>Organoleptic test</b>		
Appearance	soft, white or slightly yellow-white, amorphous powder, free of coarse-grained particles	
<b>Physical parameter</b>		
Acidity/Alkalinity	complies	
Loss on drying	≤ 0,2	%
pH value	7,3 – 7,5	
Solubility	(in HCl): ≥ 99,9 %	
Solubility	practically insoluble in water and alcohol, soluble in dilute mineral acids	
Specific surface area	3,5 – 7,0	m <sup>2</sup> /g
Specific weight	(*) 5,5 – 5,7	g/cm <sup>3</sup>
<b>Identity</b>		

Assay	≥ 99,8	%
Identification	complies	
<b>Impurities</b>		
Residue on ignition	≤ 0,2	%
Heavy Metals (as Pb)	complies	
Insoluble impurities	Carbonates and appearance of solution: complies	
Soluble part	in H <sub>2</sub> O: ≤ 0,2	%
Impurity	≤ 0,2	%
Volatile substances	≤ 0,2	%
<b>Elemental Impurities</b>		
Arsenic (As)	≤ 1	ppm
Cadmium (Cd)	≤ 10	ppm
Chlorides (Cl)	≤ 5	ppm
Copper (Cu)	≤ 2	ppm
Iron (Fe)	≤ 5	ppm
Manganese (Mn)	≤ 1	ppm
Nickel (Ni)	≤ 1	ppm
Lead (Pb)	(EP): ≤ 20	ppm
Lead (Pb)	(USP): complies	
Sulfur (S)	≤ 7	ppm
<b>Particle size distribution</b>		
Particles	< 325 Mesh: ≥ 99,9	%

**Annotation:**

\* only available as a typical value

**Supplemental information:**

**Released by manufacturer:** 2020-09-29

**Shelf life:** 24 month

**Packing:** 25 kg bags

**Version of manufacturer:** 3

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 06. May. 2021

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