



ZINC CHLORIDE anhydrous

CAS No.: 7646-85-7

Formula of chemically pure substance: ZnCl₂

Molecular mass: 136,29

Appearance: white crystalline and hygroscopic powder (light greyish is acceptable, it does not have any influence for its quality), odourless.

Basic physical and chemical properties:

Melting temperature: 318 °C

Boiling temperature: 732 °C

Density: 2,91

Solubility: well-soluble in water, in alcohols, ether, soluble in glycerol and acetone.

Use: for electrogalvanizing and heat galvanizing as a protective flux (sometimes in mixture with ammonium chloride), for coloring and pickling of brass, at lead and copper coating of iron, as dewatering and condensing agent in organic syntheses, as catalyst, in the production of dyes, for production of galvanic cells, in the production of soldering pastes.

Basic data on quality (PND 50-132-86):

PARAMETER	max. / min.	Type and value [%]
		Type 1
Zinc chloride	min.	98
Oxychlorides (as ZnO)	max.	0,8
Sulphates (SO ₄) ²⁻	max.	0,03
Insoluble remainder in HCl	max.	0,01
Alkali (K ⁺ , Na ⁺ , Ca ²⁺)	max.	1,0
Ferrum	max.	0,002
Lead	max.	0,002
Copper	max.	0,001
Cadmium	max.	0,001

Storage: Stored in closed coverings in dry and cool area with good aeration of rooms.

Special and dangerous properties: ADR/RID: class 8,

R - Phrases: 22,34,50/53

S - Phrases: 26,36/37/39,45,60,61

UN - No.: 2331

