



PRODUCT CODE: 191232

Calcium Chloride 2-hydrate powder (USP, BP, Ph. Eur.) pharma grade

CaCl₂·2H₂O

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M.= 147,02 CAS [10035-04-8] EINECS 233-140-8

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PHYSICAL DATA: crystalline powder, White, Soluble in water 1.000 g/l at 1 C D 20/4 1,85 · M.P.: 175 C · pH4,5 - 6,5

BIBLIOGRAPHY: Merck Index **13**, 1.660 14, 1.659 Safety **2** , **666 B** · Rmp **8** , **566** · Fieser **1104 4368 10251** · ACS **XI** · BP.**2020** · USP **42** · Ph. Eur. **9.0** (2017) **10.0** (2020) · F.C.C **11 12** · BOE **243**(8-11-2009) · Regulation (EU) n 231/2012 ·

HAZARDOUS:C.E: 017-013-00-2 · RTECS: EV 9810000 · LD50 oral rat 1.000 mg/kg ·



H: H319 ·

P: P264 · P280 · P305+P351+P338 · P337+P313 ·

SPECIFICATIONS:

| | |
|--|-------------|
| Assay (as CaCl ₂ ·2H ₂ O) (Compl.) | 99,0-103,0% |
| Identity : | |
| Identity according to Pharmacopoeias: | passes test |
| pH of 5% solution | 4,5-9,2 |

Maximum limit of impurities

| | |
|------------------------|-------------|
| Appearance of solution | passes test |
|------------------------|-------------|

| | |
|---------------------------------|-------------|
| Acidity or alkalinity | passes test |
| Sulfate (SO ₄) | 0,03% |
| Residual solvents (Ph.Eur/USP) | passes test |
| Magnesium and alkali salts | 0,5% |
| Iron, Aluminium and Phosphate | passes test |
| Al | 0,0001 % |
| Fe | 0,001 % |
| Elemental impurities (ICH Q3D): | |
| Class 1 | |
| Cd | 0,5 ppm |
| Pb | 0,5 ppm |
| As | 1,5 ppm |
| Hg | 1,5 ppm |
| Class 2A | |
| Co | 5 ppm |
| V | 10 ppm |
| Ni | 20 ppm |
| Class 2B | |
| Au | 10 ppm |
| Pd | 10 ppm |
| Ir | 10 ppm |
| Os | 10 ppm |
| Rh | 10 ppm |
| Ru | 10 ppm |
| Se | 15 ppm |
| Ag | 15 ppm |
| Pt | 10 ppm |
| Class 3 | |
| Li | 55 ppm |
| Sb | 120 ppm |
| Ba | 140 ppm |
| Mo | 25 ppm |
| Cu | 250 ppm |
| Sn | 600 ppm |
| Cr | 25 ppm |