



Technical Information

01.05.2023

Calcium Chloride 77% Flakes Food Grade (E509)

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|--------------------------|-------------------------|
| Chemical formula: | CaCl ₂ |
| CAS-No.: | 10043-52-4 |
| EC-No.: | 233-140-8 |
| REACH: | 01-2119494219-28-XXXX |
| HS-Code: | 28272000 |
| Appearance: | White flakes, odourless |

| Characteristic | Unit | Specification | Typical Value |
|--|-------------------|---------------|---------------|
| CaCl ₂ | % | ≥ 77 | 78 |
| Dihydrate CaCl ₂ · 2 H ₂ O | % | 99 - 107 | 103 |
| Residual mass as H ₂ O | % | n/a | 18 - 22 |
| Bulk density | kg/m ³ | – | 800 - 900 |
| pH (in 5% CaCl ₂ -solution at 20°C) | | 9 - 11 | 10,4 |
| Mg and alcali salts | % | ≤ 4.0 | 2 |
| Insoluble in water | % | ≤ 0.20 | 0.05 |
| Alkalinity as Ca(OH) ₂ | % | ≤ 0.15 | 0.13 |
| F | mg/kg | ≤ 40 | 18 |
| Heavy metals (as Pb) | mg/kg | ≤ 20 | < 20 |
| Fe | mg/kg | ≤ 5 | 1 |
| Pb | mg/kg | ≤ 2 | 1 |
| As | mg/kg | ≤ 1 | < 0.01 |
| Hg | mg/kg | ≤ 0.5 | < 0.01 |

Typical Sieve Analysis

| | |
|--------|---------------------------|
| 6.3 mm | ca. 100 % approx. passing |
| 4 mm | ca. 90 % approx. passing |
| 2 mm | ca. 30 % approx. passing |
| 1 mm | ca. 10 % approx. passing |

Packaging: 25 kg bags on pallet; 1,000 kg big bags on pallet.

Calcium chloride 77% Flakes food grade is in compliance with:
Food Chemicals Codex (FCC), 13th edition 2022 | EC 2012/231 | DIN 19626 | FAO/JECFA 2004.

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Reference: Oct 4, 2022

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