



## Spezifikation

| Produktbezug:                   |  |
|---------------------------------|--|
| Produktnummer                   | 6100056MPEUL   |
| Handelsname / Bezeichnung       | Trikaliumcitrat Monhydrat, EP, USP, FCC,   |
| CAS Nummer                      | 6100-05-6  |
| Andere Bezeichnungen / Synonyme | •1,2,3-Propanetricarboxylic acid, 2-hydroxy-, potassium salt, hydrate (1:3:1); •Citrat-Monohydrat; •Kalium Citrat Monhydrat krist; •Trikaliumcitratmonohydrat; •Tripotassium citrate monohydrate; •tripotassium 2-hydroxypropane-1,2,3-tricarboxylate; |
| EG Nummer                       | 612-062-1  |
| Zolltarifnummer / CN-Code       | 29181500   |
| Molekulargewicht [g/mol]        | 306.3946   |
| Formel                          | C <sub>6</sub> H <sub>5</sub> K <sub>3</sub> O <sub>7</sub>  |

| Parameter                           | Spezifikation  | Einheit |
|-------------------------------------|--|---------|
| <b>Sensorische Prüfung</b>          |  |         |
| Aussehen der Lösung                 | entspricht   |         |
| Aussehen                            | weißes, körniges Pulver oder transparente Kristalle, hygroskopisch |         |
| <b>Physikalische Parameter</b>      |  |         |
| Säuregehalt                         | Max. 0.2 ml/g 0.1 M HCl oder 0.1 M NaOH                            |         |
| Trocknungsverlust                   | (Karl Fischer) 4,0 – 6,0   | %       |
| pH-Wert                             | 5 %-Lösung   |         |
| Löslichkeit                         | in Ethanol: kaum löslich   |         |
| Löslichkeit                         | in Wasser: leicht löslich  |         |
| <b>Identifikation</b>               |  |         |
| Gehalt                              | 99,0 – 100,5   | %       |
| Identifizierung                     | entspricht   |         |
| <b>Verunreinigungen</b>             |  |         |
| Oxalate (als wasserfreie Oxalsäure) | ≤ 100  | ppm     |

|                                    |   |     |
|------------------------------------|---|-----|
| Sulphat (SO <sub>4</sub> )         | ≤ 100                                     | ppm |
| Verunreinigung                     | Leicht karbonisierbare Stoffe: entspricht | %   |
| Verunreinigung                     | Tartrat: entspricht                       |     |
| Flüchtige Stoffe                   | organische: entspricht                    |     |
| <b>Elementare Verunreinigungen</b> |   |     |
| Arsen (As)                         | ≤ 1                                       | ppm |
| Cadmium (Cd)                       | ≤ 0,5                                     | ppm |
| Chloride (Cl)                      | ≤ 15                                      | ppm |
| Quecksilber (Hg)                   | ≤ 0,5                                     | ppm |
| Kalium (K)                         | 35,6 – 36,2                               | %   |
| Natrium (Na)                       | ≤ 0,3                                     | %   |
| Blei (Pb)                          | ≤ 0,5                                     | ppm |
| <b>Partikelgrößenverteilung</b>    |   |     |
| Partikel                           | Particle size (< 0.20 mm) (70 mesh) ≤ 15  | %   |
| Partikel                           | Partikelgröße (> 0.60 mm) (30 mesh) ≤ 10  | %   |

### **Zusätzliche Angaben:**

**Entspricht der Monographie:** EP, USP, FCC, E 332(ii)

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 25. Jan. 2023

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