



## Spezifikation

| Produktbezug:                                                                                                                                                                                      |                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| Produktnummer                                                                                                                                                                                      | 110156EIR                                         |
| Handelsname / Bezeichnung                                                                                                                                                                          | Bernsteinsäure kristallin, E 363<br>Succinic Acid |
| CAS Nummer                                                                                                                                                                                         | 110-15-6                                          |
| Andere Bezeichnungen / Synonyme                                                                                                                                                                    | Bernsteinsäure succinic acid Bernsteinsäure       |
| EG Nummer                                                                                                                                                                                          | 203-740-4                                         |
| Zolltarifnummer / CN-Code                                                                                                                                                                          | 29171990                                          |
| Molekulargewicht [g/mol]                                                                                                                                                                           | 118,09                                            |
| Formel                                                                                                                                                                                             | C <sub>4</sub> H <sub>6</sub> O <sub>4</sub>      |
| <b>Achtung</b>                                                                                                    |                                                   |
| Verursacht schwere Augenreizung.<br>BEI KONTAKT MIT DEN AUGEN: Eventuell Vorhandene Kontaktlinsen nach Möglichkeit entfernen. Weiter ausspülen. Einige Minuten lang behutsam mit Wasser ausspülen. |                                                   |

| Parameter                          | Methode                             | Spezifikation                           | Einheit    |
|------------------------------------|-------------------------------------|-----------------------------------------|------------|
| <b>Sensorische Prüfung</b>         |                                     |                                         |            |
| Aussehen der Lösung                | 1g in 10 ml H <sub>2</sub> O @ 50°C | klar und farblos                        |            |
| Aussehen                           |                                     | weißes, kristallines Pulver             |            |
| Geruch                             |                                     | geruchlos                               |            |
| <b>Physikalische Parameter</b>     |                                     |                                         |            |
| Trocknungsverlust                  | K.F.                                | ≤ 1,0                                   | %          |
| Schmelzbereich                     |                                     | 186 - 188                               | °C         |
| <b>Identifikation</b>              |                                     |                                         |            |
| Gehalt                             | acidimetry                          | 99,5 - 100,5                            | %          |
| <b>Verunreinigungen</b>            |                                     |                                         |            |
| Ammonium                           |                                     | ≤ 10                                    | ppm        |
| Verunreinigung                     |                                     | fumaric and maleic acid in sum<br>≤ 0,2 | %          |
| Verwandte Substanzen               | GC area %                           | in sum: ≤ 0,5                           | %<br>[w/w] |
| Verwandte Substanzen               | GC area %                           | for each: ≤ 0,1                         | %<br>[w/w] |
| <b>Elementare Verunreinigungen</b> |                                     |                                         |            |
| Eisen (Fe)                         |                                     | ≤ 5                                     | ppm        |

### Zusätzliche Angaben:

**Mindesthaltbarkeit:** 5 Jahre

**regionaler Ursprung:** Europe

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 30. Jul. 2018

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