



## Specification

| Concerning Product:                     |  |
|---|--|
| Article number                          | 10102406M  |
| Trade name / designation / denomination | SODIUM MOLYBDATE 2-HYDRATE   |
| CAS number                              | 10102-40-6   |
| Other names / synonyms                  | •MOLYBDIC ACID; •MOLYBDIC ACID, ACS; •Molybdate (MoO <sub>4</sub> <sup>2-</sup> ), sodium, hydrate (1:2:2), (T-4)-; •Sodium Molybdate, Dihydrate, Crystal, CP; •Sodium Molybdate, Dihydrate, Crystal, Reagent, ACS; •Sodium molybdate dihydrate; •Sodium molybdenum oxide dihydrate; •Sodium molybdenum oxide dihydrate, ACS, 99.5-103.; |
| EC number                               | 600-158-6  |
| Customs tariff number / CN code / TARIC | 28417000   |
| Molecular weight [g / mol]              | 223.932  |
| Formula                                 | H <sub>2</sub> MoNa <sub>2</sub> O <sub>5</sub>  |

| Parameter                    | Specification  | Unit |
|------------------------------|--|------|
| <b>Organoleptic test</b>     |  |      |
| Colour                       | white  |      |
| <b>Physical parameter</b>    |  |      |
| Form                         | crystalline powder   |      |
| Loss on drying               | ≤ 15   | %    |
| pH value                     | (5% in H <sub>2</sub> O): 8 – 10                           |      |
| <b>Identity</b>              |  |      |
| Assay                        | MgO: ≥ 39  | %    |
| Assay                        | Na <sub>2</sub> MoO <sub>4</sub> · 2H <sub>2</sub> O: ≥ 99 | %    |
| <b>Impurities</b>            |  |      |
| Insoluble impurities         | ≤ 0,05   | %    |
| Sulphates (SO <sub>4</sub> ) | ≤ 0,3  | %    |
| <b>Elemental Impurities</b>  |  |      |
| Arsenic (As)                 | ≤ 10   | ppm  |
| Cadmium (Cd)                 | ≤ 10   | ppm  |
| Chlorides (Cl)               | ≤ 0,025  | %    |
| Iron (Fe)                    | ≤ 10   | ppm  |
| Mercury (Hg)                 | ≤ 1  | ppm  |
| Lead (Pb)                    | ≤ 10   | ppm  |

### Supplemental information:

**Shelf life:** 18 month

**Storage conditions:** under warehouse conditions in closed original packaging

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 07. Oct. 2021

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