TIBCHEMICALS

Hydrochloric acid 18-22%

Product Data

Chemical name	Hydrochloric acid
Chemische Formel	HCl
Density (20°C)	1.088 – 1.108 g/cm^3
CAS No.	7647-01-0
Customs tariff number	2806 10 00

Properties

Appearance and color	Clear, colorless to light yellow
Odor	Pungent

Specification

On request

Application

- Wastewater treatment and water purification
- pH adjustment
- Regeneration of cation exchangers
- Processing of ores and raw phosphate
- Extraction of metal chlorides
- Cleaning, pickling, and etching of metals
- Acid regulator (E507) in the food industry
- Use in cleaning and descaling processes
- Stimulation of oil and natural gas probes
- Dissolving rock in deep drilling technology
- Conversion of insoluble drugs into soluble hydrochlorides

Delivery

- Road tankers
- Rail tank cars
- Inland waterway vessels

Suitable materials

Rubber-coated, Teflon, Enamel

Transport

UN number: 1789

Hazard number: 80

Packaging group: II

Special advise for Security

Information concerning

- classification and labelling according to the regulations governing transport and hazardous chemicals
- protective measures for storage and handling
- safety measures in case of accident and fire
- toxicity and ecological effects

is given in our material safety data sheet.

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Product Carbon Footprint (PCF)

Created by: KlimAktiv Consulting GmbH

PCF-results (emissions)	Value	Unit
Sum of PCFs (Cradle-to-gate)	-	kg CO_2eq/kg
PCF excluding biogenic emissions	-	kg CO_2eq/kg
Biogenic emissions	-	kg CO_2eq/kg

The Product Carbon Footprint (PCF) covers one of several environmental impacts of chemical products. The PCF does not allow comprehensive conclusions about the overall environmental performance of the product. Comparisons of PCFs from different data sources are only possible to a limited extent. The PCF presented here applies to the product sold by TIB Chemicals.

The PCF is based on data of the accounting year 2024 and follows the calculation method outlined in ISO 14067, the TfS Guideline, the BASF Guideline, the cradle-to-gate system boundaries, the declared unit kg CO2e/kg product (excl. packaging) and the sum of different emissions from Scope 1, 2 and 3 (raw material and preliminary products (e.g. secondary data), transportation of purchased products and inbound logistics, as well as company- and site-specific processes including primary energy consumption, electricity and heat consumption). The emissions from biogenic carbon and land-use changes are considered as far as data sources are available.

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