





Specification

| Concerning Product: | |
|--|--|
| Article number | 108247LRI |
| Trade name / designation / denomination | Essigsäureanhydrid 99% Acetic Anhydride |
| CAS number | 108-24-7 |
| Other names / synonyms | •ACETIC ANHYDRIDE; •ACETIC ANHYDRIDE-D6; •Acetic Anhydride; •Acetic Anhydride (ca. 1mol/L in Dichloromethane); •Acetic Anhydride, Reagent, ACS; •Acetic anhydride; •Acetic anhydride, ACS; •Acetic anhydride-d6; •acetic acid acetyl ester; •acetic anhydride; |
| EC number | 203-564-8 |
| EC index number | 607-008-00-9 |
| Customs tariff number / CN code / TARIC | 29152400 |
| Molecular weight [g / mol] | 102,09 |
| Formula | C4H6O3 |
| Danger   | 1715, 8 (Ätzende Stoffe), |
| <p>Flammable liquid and vapour. Harmful if swallowed. Causes severe skin burns and eye damage. May cause respiratory irritation.</p> <p>Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED: IF IN EYES: IF exposed or if you feel unwell: immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes.</p> | |

| Parameter | Test Method | Specification | Unit |
|------------------------------|--------------------------------------|-------------------------------------|---------|
| Organoleptic test | | | |
| Appearance | Visual | Colorless liquid with pungent odour | |
| Colour | D 5386 | ≤ 15 | Apha |
| Physical parameter | | | |
| Acidity/Alkalinity | As per GC report | NMT 0.5 | Wt% |
| Boiling range | As per standards | 138.5 – 141.5 | °C |
| Specific weight | | 20°C 1.080 – 1.084 | |
| Identity | | | |
| Assay | GC | ≥ 99,5 | Wt% |
| Impurities | | | |
| Residue on ignition | | ≤ 0.005 | Wt% |
| Heavy Metals (as Pb) | Atomic absorption spectroscopy (AAS) | ≤ 1 | ppm |
| Sulphates (SO ₄) | As per standards | ≤ 1 | ppm |
| Residue on evaporation | | ≤ 0.0050 | |
| Impurity | GC derivative method | Butyryl Content ≤ 30 | ppm |
| Impurity | | Permanganate Time ≥ 10 | Minutes |
| Impurity | GC derivative method | Propionyl Content ≤ 200 | ppm |
| Elemental Impurities | | | |
| Chlorides (Cl) | As per standards | ≤ 1 | ppm |
| Iron (Fe) | Atomic absorption spectroscopy (AAS) | ≤ 1 | ppm |

Supplemental information:

Packing: Bulk

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 05. Oct. 2020

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