

TECHNICAL DATA SHEET

Isopropyl Alcohol (IPA), CO₂-reduced – technical grade and pharma grade

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1 PRODUCT DESCRIPTION

Isopropyl alcohol (2-propanol, IPA) is a colourless, volatile liquid with a characteristic alcoholic odour. It is fully miscible with water and most organic solvents.

PENPET GREEN supplies CO₂-reduced isopropanol via the ISCC PLUS mass balance approach: a certified share of renewable feedstock is used in production and allocated to the end product. The product is chemically identical to conventional isopropanol and can be used without reformulation. Available in technical grade and in pharma grade according to Ph. Eur. 11.0.

2 PRODUCT IDENTIFICATION

Trade name	Isopropyl alcohol (IPA), CO ₂ -reduced
Chemical name	Propan-2-ol
Synonyms	2-Propanol, isopropanol, dimethylcarbinol
CAS No.	67-63-0
EC No.	200-661-7
Molecular formula	C ₃ H ₈ O
Molecular weight	60.10 g/mol

3 GRADES

Technical grade	Purity ≥ 99.8 % (GC) · Water ≤ 0.1 % (w/w) · Evaporation residue ≤ 1 mg/100 ml
Pharma grade	meets Ph. Eur. 11.0 · Purity ≥ 99.9 % (GC) · Benzene ≤ 2 mg/kg · Water ≤ 0.5 % (w/w) · Total impurities ≤ 0.3 % (w/w)

Binding limits are given in the specifications (PENPET_GREEN_Spec_Isopropanol_Technical / _Pharma).

4 TYPICAL PROPERTIES

Physical state	liquid
Colour / odour	colourless / alcoholic
Density (20 °C)	0.786 g/cm ³
Boiling point	82.6 °C
Flash point	12 °C
Miscibility with water	complete

5 APPLICATIONS

- Disinfectants and hand sanitisers
- Pharmaceutical formulations and cleanroom cleaning
- Cosmetics and personal care
- Printing industry and cleaning of printing rollers
- Electronics cleaning and surface degreasing
- Solvent for coatings, resins and inks
- Chemical synthesis and extraction

6 REGULATORY INFORMATION

Classification (CLP, harmonised)	Flam. Liq. 2 (H225), Eye Irrit. 2 (H319), STOT SE 3 (H336) · Signal word: Danger · GHS02, GHS07
REACH	REACH compliant
European Pharmacopoeia	pharma grade meets Ph. Eur. 11.0

7 SUSTAINABILITY

Approach	ISCC PLUS mass balance – certified share of renewable feedstock, allocated by accounting
Certification	ISCC PLUS certified material (mass balance) available on request
Note	The CO ₂ benefit results from the certified allocation, not from a physically measurable bio-based content.

8 PACKAGING, STORAGE AND TRANSPORT

Packaging	ISO tank container (bulk), IBC (1,000 kg), drum (200 l)
Storage	cool, dry and well ventilated, containers tightly closed; keep away from ignition sources
Transport	UN 1219 · Isopropanol · Class 3 · Packing group II
Delivery	from Hamburg throughout Europe

9 AVAILABLE DOCUMENTS

- Specifications technical grade and pharma grade (DE/EN) and technical data sheet (DE/EN) – download at www.penpet.green
- Safety data sheet (DE/EN) and certificate of analysis (CoA) with every delivery or in advance on request
- ISCC PLUS mass balance evidence – on request

The information in this technical data sheet is based on manufacturer information and our current state of knowledge. It describes the product but does not constitute a guarantee of properties and does not release the user from carrying out their own tests. The agreed specification and the certificate of analysis of the respective delivery are binding. Information on safe handling is given in the safety data sheet.