



Technical Data Sheet

**Sulphuric Acid
concentrated
electrolytic**

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Manufacturer	Public Joint-Stock Company SUMYKHIMPROM
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Product information

Intended use	Is used upon dilution with distilled water as electrolyte, and is intended to fill lead accumulators
Appearance	Transparent thick liquid
Molecular formula	H ₂ SO ₄
Trade name	Sulphuric Acid electrolytic
Registration numbers	CAS No. 7664-93-9; EINECS No. 231-639-5
Guaranteed shelf life	In bulk or packed in shipping container — one month from the date of delivery. Packed in consumer packaging — 3 years from the date of manufacture.
Kind of packaging	Is filled in transport packaging: — steel drums, capacity from 100 dm ³ to 275 dm ³ — specialized steel containers, type SC-5Ts, gross weight 1,25 (1,0) t, 5,0 (7,0) t, 10,0 t; — specialized KCBMB, type 31HZ1 (polymer vessel in metal casing), capacity 1000 dm ³ maximum; — plastic flasks and canisters, capacity from 1 dm ³ to 10 dm ³ , and consumer packaging (only for sulphuric acid reactant and electrolytic): — glass bottles, capacity from 1 dm ³ to 5 dm ³ ; — plastic bottles, capacity from 1 dm ³ to 10 dm ³ ; — glass barrels, capacity from 5 dm ³ to 10 dm ³ .
Durability period	Unlimited
Storage and handling conditions	Sulphuric Acid should be kept in tanks made of steel or acid-proof metal, both lined or not lined with acid-proof bricks or acid-resistant material, fully preserving the quality of Sulphuric Acid within the whole storage period
Transport information	Is carried by road (ADR) or railway vehicles (RID), conforming to to valid for the given kind of transport regulations on loading, fastening and carriage of cargo. Complying to international carriage regulations, the cargo is classified as dangerous goods. Is delivered by railway and road tank-cars.

Physico-chemical indices

Indices denomination	Norm for grades	
	top quality	1 st grade
Monohydrate (H ₂ SO ₄), % by wt.	92-94	92-94
Iron (Fe), % by wt., max.	0,005	0,010
Calcinations residue, % by wt., max.	0,02	0,03
Nitrogen Oxides (N ₂ O ₃), % by wt., max.	0,00003	0,0001
Manganese (Mn), % by wt., max.	0,00005	0,0001
Sum of heavy metals in terms of Lead (Pb), % by wt., max.	0,01	0,01
Substances, reducing KMnO ₄ of mole concentration solution and equivalent to $c(1/5 \text{ KMnO}_4) = 0,01 \text{ mole/dm}^3$, in terms of potassium permanganate consumption, cm ³ , max.	4,5	7
Transparence	Withstands the test	
Note 1. The indices "Manganese percentage by weight" and "sum of heavy metals in terms of Lead" are guaranteed by manufacturer and undergo control once a month.		