

# Technical synthetic phenol

## GOST 23519-93

### APPLICATION

It is used in the production of caprolactam, diphenylpropane, medical preparations, phenol-formaldehyde resins, ortho-cresol, oil additives, for selective oil purification and other purposes.

Parameter name	Value			Test method
	grade A	grade B	grade B	
Appearance	White crystalline substance.		White crystalline substance. Pinkish or yellowish tint is allowed.	GOST 23519
Crystallization temperature, °C, not lower	40.7	40.6	40.4	GOST 18995.5, GOST 23519
Mass fraction of non-volatile residue, %, no more	0.001	0.008	0.01	GOST 27026, GOST 23519
Optical density of an aqueous solution of phenol at 20 °C, no more	0.03			GOST 23519
Optical density of sulfonated phenol, no more	0.05	Not standardized		GOST 23519
Color of phenol melt according to the platinum-cobalt scale, Hazen units, no more	5	Not standardized		GOST 14871, GOST 23519
Mass fraction of water, %, no more	0.03	Not standardized		GOST 14870, GOST 23519
Mass fraction of the sum of organic impurities, %, no more	0.01	Not standardized		GOST 23519
including mesityl oxide, %, no more	0.0015	0.004	Not standardized	
amounts of $\alpha$ -methylstyrene and isopropylbenzene (cumene), %, no more	Not standardized	0.01	Not standardized	

### HAZARD IDENTIFICATION

The substance is highly hazardous according to the degree of impact on the body in accordance with GOST 12.1.007. Toxic if swallowed, toxic if in contact with the skin, toxic if inhaled; causes chemical burns if in contact with the skin and eyes. Genetic defects are suspected; may adversely affect fertility and the unborn child; may cause damage to the kidneys, liver, skin and nervous system as a result of prolonged or repeated exposure. Combustible. Toxic to aquatic organisms with long-term effects.

### TRANSPORTATION AND STORAGE

The product is transported in heated railway tank cars made of stainless chromium-nickel, carbon steel with zinc coating or carbon steel, through a heated pipeline made of stainless chromium-nickel steel. Phenol for medical preparations is transported only in tanks made of stainless chromium-nickel steel and carbon steel with zinc coating. During loading and unloading operations and in the transport pipeline, the temperature of phenol should be (60±10) °C. Phenol in a solid and molten state is stored away from open fire in sealed tanks made of stainless chromium-nickel steel, carbon steel with zinc coating, and monolithic aluminum tanks. Storage in a molten state under nitrogen (with an oxygen content of no more than 2% vol.) at a temperature of (60±10) °C for up to 2-3 days is allowed. When storing in aluminum tanks, monitor the temperature. Incompatible substances during storage: oxidizing agents, acids, alkalis.

### GUARANTEE OF MANUFACTURER

The guaranteed shelf life of phenol in solid form: grade A – 1 month, grade B – 1.5 months, grade V – 12 months from the date of manufacture.

The information contained in this document is given according to our knowledge at the time of publication. It is the responsibility of the customer to test our products to determine their suitability for the intended application. The manufacturer accepts no liability for loss/damage that may arise from the use of this information. UN number: 1671 (solid phenol), 2312 (molten phenol). Classification code: 6112 (GOST 19433, rail transport).