

	BP0401-SC030
	Version: 1.0
Factory Ethilene HIP-Petrohemija d.o.o.	Identification number: TUS-HIPP-2536
	Date: 20.02.2025
SPECIFICATION OF INPUT MATERIAL Sodium hydroxide for the Ethylene plant	

1. Product name/ Chemical name	Sodium hydroxide				
2. SAP mark:	8123787 [*]				
3. Tehnical description:	A 50% sodium hydroxide solution is used for caustic washing of crude gasoline fractionation products in caustic scrubber A-6, in which H ₂ S and CO ₂ -based acid are neutralized.				
4. Physical and chemical characteristics:	Serial namb.	Characteristic	Method	Unit	Range of allowed values
	1.	Sodium hydroxide	SRPS ISO 979	% (m/m)	min.48
	2.	Sodium carbonate	-	% (m/m)	max.0,3
	3.	Sodium chloride	-	% (m/m)	max.0,05
	4.	Sodium sulfate	-	% (m/m)	max.0,02
	5.	Silicon dioxide	-	ppm (m/m)	max.100
	6.	Aluminum oxide	-	ppm (m/m)	max.10
	7.	Calcium oxide	-	ppm (m/m)	max.10
	8.	Magnesium oxide	-	ppm (m/m)	max.5
	9.	Iron	SRPS H.B8.222	ppm (m/m)	max.5
	10.	Manganese	-	ppm (m/m)	max.5
	11.	Mercury	-	ppm (m/m)	max.1
	12.	Copper	-	ppm (m/m)	max.0,5
	13.	Nickel	-	ppm (m/m)	max.1
5. Technical/ supporting documentation:	The supplier is obliged to deliver: - Safety data sheet, in Serbian - test report - dispatch note				

6. HSE requirements:	-
7. Delivery and marking:	Delivery is made by tank cars, and it is stored in appropriate tanks. Marking is done according to SRPS H.B1.031.
8. Transport:	-
9. Criterion for determining product acceptability	Before each unloading, it is necessary to perform a laboratory analysis of the product in order to determine whether the product is acceptable. The product is acceptable if it meets the permitted tolerances on all points, that is, all the requirements given in this specification. The material is procured from approved suppliers, who guarantee quality.

4. Physical and chemical characteristics		5. Technical supporting documentation	
Order number	Characteristics	Method	Unit
1	Sodium hydroxide	SRPS ISO 375	g (min)
2	Sodium carbonate		g (min)
3	Sodium chloride		g (min)
4	Sodium sulfate		g (min)
5	Silicon dioxide		g (min)
6	Aluminum oxide		g (min)
7	Calcium oxide		g (min)
8	Magnesium oxide		g (min)
9	Iron	SRPS M 55.232	g (min)
10	Manganese		g (min)
11	Mercury		g (min)
12	Copper		g (min)
13	Nickel		g (min)