

Sodium hydroxide pellets

Meets USP 41-NF 36, EP 9.0, JP 17, BP 2016 and IP 2018 testing specifications

Product Code: TC460M

Product Description :

Molecular weight: 40

Molecular formula: NaOH

CAS No.: 1310-73-2

Quality Control:

Appearance (USP)

White or practically white, fused masses, in small pellets, in flakes or sticks and in other forms. Is hard and brittle and shows crystalline fracture.

Appearance (EP, BP)

White or almost white crystalline masses, supplied as pellets, sticks or slabs, deliquescent, readily absorbing carbon dioxide

Appearance (JP)

White, fused masses, in small pellets, in flakes, in sticks and in other forms. It is hard and brittle and shows a crystalline fracture.

Appearance (IP)

White, crystalline masses supplied as sticks pellets or slabs; deliquescent.

Solubility (USP)

Freely soluble in water and in alcohol

Solubility (EP, BP)

Very soluble in water, freely soluble in ethanol (96%)

Solubility (JP)

It is freely soluble in water and in ethanol (95%) and practically insoluble in diethyl ether.

Solubility (IP)

Very soluble in water, freely soluble in ethanol (95%)

pH (0.01% in water at 25°C) (USP, EP, BP)

≥ 11.00

Appearance of solution (EP, BP, IP)

Solution is clear and colourless.

Clarity & colour of solution (JP)

5% in water is clear and colourless.

Identification A (USP)

Reactions for sodium

Identification A, pH (EP, BP)

≥ 11.0 ($c = 0.01\%$ in water)

Identification A (IP)

Reaction for sodium salt

Identification 1 (JP)

0.2% solution is alkaline

Identification B : pH (USP, IP)

≥ 11.0 ($c = 0.01\%$ in water)

Identification B (EP, BP)

Reaction (a) of sodium

Identification 2 (JP)

Reactions for sodium salt

Insoluble substances and organic matter (USP)

5% solution is complete clear and colourless to slightly coloured

Arsenic (IP)

$\leq 0.0004\%$

Heavy metals (USP, JP)

$\leq 0.003\%$

Heavy metals (BP, IP)

$\leq 0.002\%$

Chloride (EP, BP)

$\leq 0.02\%$

Chloride (JP)

$\leq 0.05\%$

Chloride (IP)

$\leq 0.0125\%$

Iron (EP, BP)

$\leq 0.001\%$

Iron (IP)

$\leq 0.002\%$

Sulphate (EP, BP)

$\leq 0.02\%$

Sulphate (IP)

$\leq 0.0075\%$

Sodium carbonate (JP)

<= 2.0%

Sodium carbonate (USP)

<= 3.00%

Carbonate (EP, BP, IP)

<= 2.0%

Potassium (USP)

<= 0.5%

Potassium (JP)

The solution has no more turbidity than the control solution

Potassium (IP)

No precipitate is formed

Mercury : ICP (JP)

Meets the requirement

Content of sodium : ICP (USP)

54.00 - 59.80%

Assay (H₂SO₄ Titration) (USP)

95.00 - 100.50%

Assay (HCl Titration) (EP, BP, IP)

97.00 - 100.50%

Assay (H₂SO₄ Titration) (JP)

Min. 95.00%

Storage and Shelf Life:

Store below 30°C away from bright light.

Shelf life is 48 months.

Use before expiry date given on the product label.

Revision: 03/2022

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