

Production of Linear Alkyl Benzene Sulphonic Acid (LABSA)

Description:

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A major ingredient of Household Detergents, Laundry Powders, Laundry Liquids, Dishwashing Liquids, Other Household Cleaners

Linear Alkylbenzene Sulphonic Acid can be neutralized with caustic soda (NaOH) to form sodium alkylbenzene sulphonate-an extensively applied anionic surfactant. Linear alkylbenzene sulfonic acid is the largest-volume synthetic surfactant because of its relatively low cost, good performance, the fact that it can be dried to a stable powder and the biodegradable environmental friendliness as it has straight chain. LABSA is not inflammable substance and can dissolve in water, but not in organic solvent. LABSA is quite absorbent and its biodegradability is above 90%.

Linear Alkylbenzene Sulphonic Acid is extensively applied anionic surfactant. It is raw material for detergent industry characterized by detergency, foam, moisture, and emulsion and dispersing.

Linear alkylbenzene sulfonic acid (LABSA) is prepared commercially by sulfonating linear alkylbenzene (LAB). Linear alkylbenzene sulfonate (LAS), the world's largest-volume synthetic surfactant, which includes the various salts of sulfonated alkylbenzenes, is widely used in household detergents as well as in numerous industrial applications.

It is highly efficient versatile surfactant suitable for use separately as detergent in acidic environments. As intermediate it is usually neutralized with various bases to produce sulfonates that are used in numerous industries, most commonly in the production of liquid and powder detergents, household and I&I cleaners, laundry detergents, dishwashing liquids, car wash products, hard surface cleaners etc. Besides these s applied in various industrial applications such as agriculture, emulsion polymerization, oil field chemicals etc. Linear Alkyl Benzene Sulphonic Acid is an anionic surfactant with molecules characterized by a hydrophobic and a hydrophilic group. They are nonvolatile compounds produced by sulfonation.

Linear Alkyl Benzene Sulphonic Acid is an anionic surfactant with molecules characterized by a hydrophobic and a hydrophilic group. They are nonvolatile compounds produced by sulfonation. Linear alkyl benzene sulfonic acid are complex mixtures of homologues of different alkyl chain lengths (C10 to C13 or C14) and phenyl positional isomers of 2 to 5-phenyl in proportions dictated by the starting materials and reaction conditions, each containing an aromatic ring sulfonated at the para position and attached to a linear alkyl chain at any position with the exception of terminal one (1-phenyl).

Keywords: Production of Linear Alkyl Benzene Sulphonic Acid (LABSA), Production of Linear Alkybenzene Sulfonic Acid (LAS), Linear Alkylbenzene Sulfonic Acid, LAB-LAS Production, LABSA, Linear Alkyl Benzene, Manufacturing Process of Linear Alkyl Benzene Sulphonic Acid, Linear Alkyl Benzene Production Process, Linear Alkylbenzene Sulfonate Manufacturing Process, Linear Alkyl Benzene Process Flow Diagram, Linear Alkyl Benzene Sulphonic Acid (LABSA), LABSA Manufacturing Process Pdf, Linear Alkyl Benzene Sulph

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