

ChangFu® C412

n-Butyldimethylmethoxysilane



Description ChangFu® C412 is a special silane with the molecular formula C₇H₁₈O₂Si. Its unique chemical structure makes it a versatile component in silicone chemistry.

Features & Benefits Can undergo hydrolysis in the presence of moisture to form silanol groups, which can further condense to form siloxane bonds.
The column packing material modified with ChangFu® C412 has a strong retention capacity for hydrophobic and polar compounds, making it suitable for biological sample separation.

Applications Used as a coupling agent or surface modifier due to its reactivity with hydroxylated surfaces. It can enhance adhesion between organic polymers and inorganic substrates.
Used in the formulation of adhesives and sealants where strong bonds are required, especially in applications exposed to harsh environmental conditions.
Used in coatings and paints to improve their durability, moisture resistance, and adhesion to various substrates.
Used in encapsulating electronic components, providing protection against moisture and mechanical stress.
Used as a precursor in the synthesis of silicone polymers, and a crosslinking agent in the production of silicone rubbers and resins.
Used in textile treatment processes to impart water repellency and improve fabric durability.

Typical Properties

Description	n-Butyldimethylmethoxysilane
Product No.	ChangFu® C412
CAS No.	64712-50-1
Formula	C ₇ H ₁₈ O ₂ Si
Purity	min 95%
Color	Colorless or light yellow
Appearance	Clear liquid

Package Offered in 25L pails and 200L drums.
Custom packaging is available.

Storage Stored in a cool, well-ventilated place.
Keep container tightly closed.

Transportation See the corresponding Safety Data Sheet.