



## ***n*-Butyllithium**

### The Versatile Organometallic Compound for Organic Synthesis

*n*-Butyllithium, often abbreviated as *n*-BuLi, is a highly reactive and versatile organometallic compound primarily used in organic synthesis and as a powerful base in various chemical reactions. Its main utility lies in its ability to deprotonate weakly acidic compounds, making it a crucial tool in the field of organic chemistry. *n*-Butyllithium is commonly employed to initiate polymerization reactions, synthesize complex organic molecules, and modify the structures of organic compounds.

*n*-Butyllithium is an essential reagent in organic synthesis, where it serves as a strong base for deprotonating various compounds. This property is vital in the formation of carbon–carbon and carbon–heteroatom bonds, allowing chemists to create a wide range of organic molecules with specific functional groups. Whether it's for the synthesis of pharmaceuticals, agrochemicals, or specialty chemicals, *n*-Butyllithium plays a crucial role in the construction of complex molecular structures. Its reactivity and versatility make it a staple in the toolkit of synthetic chemists, enabling the development of new compounds with diverse applications.

Ascensus Specialties offers two grades of *n*-Butyllithium 1.6M (15% wt.) and 2.5M (23% wt.) in hexanes.

#### **Specifications:**

1.6 M

*n*-Butyllithium wt. %14.8–15.3 %

Residual alkalinity, wt. % 0.8 max

Carbon bound lithium, wt. % 95 min

Activity 98%

2.5 M

Titration Active Base. 22.0 to 24.0%

Titration Active Base 2.37 to 2.59 M

Free base < 1.2%



Headquartered in Bellevue, WA, **Ascensus Specialties** is the global leader in catalysts, ligands, building blocks, and specialty reagents. Our 60+ years of synthetic knowhow, allows us to bring additional value to our clients through our custom synthesis and cGMP services. From world-class production plants in Elma, WA, Evans City, PA, Newburyport, MA, and Cambridge, UK, Ascensus has a global reach that ensures our clients can consistently manufacture their products to the highest standards.

## ► THE ASCENSUS ADVANTAGE

60+ Years Of Experience

Custom-Tailored Purity And Impurity Profiles

Commercial GMP Capabilities

Supply Chain Development

Process Control And Robustness

Bioburden Control

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