

n-Butyllithium, 24% in Cyclohexane

CAS No. 109-72-8

QS-PDS-034 Revision: 05

Date of Last Revision: June 12, 2024

Formula:	CH ₃ CH ₂ CH ₂ CH ₂ -Li			
Appearance:	Clear, colorless to yellow solution			
Application:	Deprotonation and metal–halogen exchange reactions; synthesis of solution styrene butadiene rubber and of styrenic thermoplastic elastomers. Also used for synthesis of chemical intermediates.			
Product Specifications:	<i>n</i> -Butyllithium, wt. % Carbon Bound Lithiu Residual Alkalinity, y	um, wt. %	24.5 99 0.24	Typical Value Typical Value Typical Value
	*This product can be made to agreed upon customer specifications.			
Other Data:	Solvent Cyclohexane (contains <10% hexanes or heptane in inhibit freezing)			
Physical Properties:	Molecular Weight Contained Butyllithiu Pyrophoricity Density @ 25°C	um	64.06 183.7 g/L (1.53 lb/gal) Pyrophoric 0.7653 g/mL (6.39 lb/gal)	
Solubility:	<i>n</i> -Butyllithium is miscible in all proportions with aliphatic, aromatic, and ethereal solvents; however, there is some reactivity with the latter two solvent types.			
Thermal Stability:	At 20°C and 35°C, the average decomposition rates are 0.003 wt. % per day and 0.027 wt. % per day, respectively. Recommended storage: 20°C or lower and preferably at less than 10°C.			
Toxicity / Safety Data / Handling / Storage / Disposal:	Information on toxicity, safety, handling, storage and disposal is contained in the Safety Data Sheet (SDS) for this product.			
Shipping Containers:	Bulk Containers Cylinders Glass Bottles			



Shipping Limitations: Shipments of NBL are described as "ORGANOMETALLIC SUBSTANCE, LIQUID, PYROPHORIC, WATER-REACTIVE (N-BUTYLLITHIUM, HYDROCARBON SOLUTION), 4.2 (4.3), UN 3394, PG I". Shipments require "Spontaneously Combustible" and "Dangerous When Wet" labels.

Post, Parcel, Air	Not acceptable	
Sea	Class 4.2 (4.3)	(IMDG)
Road, Rail (USA)	Class 4.2 (4.3)	(DOT)
Road, Rail (EU)	Class 4.2 (4.3)	(RID/ADR)

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