



PRODUCT IN FOCUS



Lithium Bromide

INTRODUCTION

Lithium bromide (LiBr) is a white, hygroscopic solid. The hygroscopic nature makes it a versatile chemical that can be put to various end uses. It is usually sold in anhydrous form or in aqueous solutions of varying concentrations.

Manufacture

The salt is produced by reaction between lithium carbonate and hydrobromic acid. Alternatively, it is also produced by bromination of lithium hydroxide.

Synonyms	Lithium monobromide Hydrobromic acid lithium salt
CAS no.	7550-35-8
EINECS no.	231-439-8
Molecular formula	LiBr
Molecular weight	86.85
Structure	LiBr

Medicinal Uses

LiBr acts as sedative and is used in treatment of bipolar disorders. It is also a medical humectant.

Air Conditioning

The bromide finds its major application in some air conditioning systems, whereby its 55-60% aqueous solution is used as desiccant (phenomenon of absorption chilling).

Chemical Processes

The salt is further applied in various processes such as:

- ✔ Absorption of water vapors (vapor absorption media)
- ✔ Catalyst in dehydrogenation reactions
- ✔ Low temperature heat exchange processes
- ✔ Carbonyl compound condensations with active methylene compounds
- ✔ Some alkylation reactions
- ✔ Inexpensive catalyst in epoxide ring opening using amines
- ✔ Deprotonation and dehydration of organic molecules possessing acidic protons
- ✔ Purification of steroids

Others

Reconstitution of brines, electrolyte component in Li batteries, and welding flux are some of the feeble uses of LiBr.



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SPECIFICATIONS

Test	Unit	Specifications
Appearance	-	White to off-white hygroscopic powder
Solubility	-	Soluble in water
Assay	%	Min 99.0
pH of 10% aqueous solution	-	7.5 - 10.5
Loss on drying	%	Max 1.0

STORAGE

The product is stored at ambient temperature.

PACKING

50 kg HDPE drum

REACH Status

Not registered yet

ExSyn offers lithium bromide on commercial scales and welcomes enquiries. No matter the quantity you need, our exceptional quality and service will make ExSyn your supplier of choice! If you need any additional information or SDS, please get in touch with us.