

PRODUCT IN FOCUS



Potassium Borohydride

INTRODUCTION

Potassium borohydride (KBH_4) is an inorganic chemical with unique reducing power that is used in chemical synthesis. Whereas it easily generates a hydrogen atom quintessential for reduction processes, the borohydride reacts violently with water. It is toxic by ingestion. KBH_4 finds large consumption in agrochemicals, pharmaceuticals, and intermediates.

Manufacture

KBH_4 is conveniently produced by reaction of caustic potash with sodium borohydride.

Applications in Pharma

Potassium borohydride finds application in production of many APIs including:

- ✔ Fenfluramine
- ✔ Zopiclone
- ✔ Fluoxetine
- ✔ Gliclazide
- ✔ Trimebutine maleate

Applications in Agrochemicals

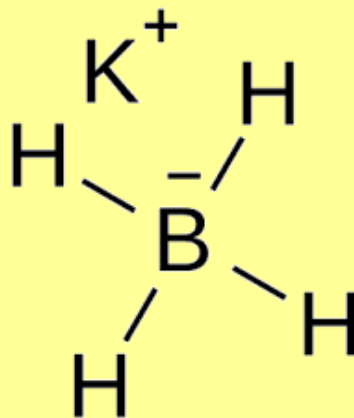
The borohydride is further employed in synthesis of agrochemicals such as:

- ✔ Diniconazole
- ✔ Bromhexine HCl
- ✔ Triadimenol
- ✔ Bromadiolone
- ✔ Paclobutrazol
- ✔ Brodifacoum

Applications in Intermediates

For its excellent reduction prowess, the molecule converts organics acids, aldehydes, and ketones to corresponding alcohols, whereby a large array of intermediates can be produced. Besides, the borohydride is found to have usage in production of diethylamine borane, dimethylamine borane, and sodium hydrosulphite.

Synonym	Potassium Tetrahydroborate
CAS no.	13762-51-1
EINECS no.	237-360-5
Molecular formula	KBH_4
Molecular weight	53.94
Structure	$\begin{array}{c} \text{H} \\ \\ \text{H}-\text{B}^--\text{H} \\ \\ \text{H} \end{array} \quad \text{K}^+$



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SPECIFICATIONS

Test	Unit	Specifications
Appearance	-	White crystalline powder
Content	%	Min 98.0
Clarity of solution	-	Clear
Loss on drying	%	Max 0.3

STORAGE

The product is stored at ambient temperature.

PACKING

15 kg UN-Approved drum.

REACH Status

Not registered yet.

ExSyn offers potassium borohydride 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.