

1,3-DIBROMOPROPANE



PRODUCT IN FOCUS



1,3-Dibromopropane

INTRODUCTION

1,3-Dibromopropane is an organobromine compound. A bifunctional alkyl halide, it has two bromine leaving groups that can participate in substitution or elimination reactions. It is widely used as an intermediate in production of wide range of products including pharmaceuticals, insecticides, quaternary Ammonium compounds, flavouring agents, fragrances and in polymer chemistry.

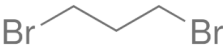
MANUFACTURE

1,3-Dibromopropane can be prepared via the free radical addition between allyl bromide and hydrogen bromide.

APPLICATIONS

1,3-Dibromopropane is useful in variety of chemical syntheses and industrial applications. Here are its main uses:

- 🔍 **Organic Synthesis** : As precursor to heterocycles to form three- to five-membered rings for e.g. Aziridines, Pyrrolidines, pyrroles, Epoxides and other cyclic ethers.
- 🔍 In nucleophilic substitution reactions.
- 🔍 **Polymer Chemistry** : Used as a cross-linker in the synthesis of certain thermosetting resins or polymeric materials.
- 🔍 **Intermediate in drug synthesis**: To build complex molecules in pharmaceutical research.
- 🔍 In Prodrug and delivery systems.
- 🔍 **Materials Science** : Used to introduce functional groups onto surfaces or nanomaterials via covalent bonding.
- 🔍 Also used as a laboratory reagent.

Synonyms	Trimethylene dibromide Propane, 1,3-dibromo
CAS no.	109-64-8
EINECS no.	203-690-3
Molecular formula	C ₃ H ₆ Br ₂
Molecular weight	201.89
Structure	

1,3-DIBROMOPROPANE



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SPECIFICATIONS

Test	Unit	Specification
Appearance (By Visual)	-	Colourless to slight yellow liquid
Density at 20°C	gm /ml	1.98
Boiling Point	°C	166.0 -167.0
Moisture Content	%	NMT 0.5
Purity (By GC)	%	NLT 99.0

STORAGE & PRECAUTION

Store in cool, dry place out of direct sunlight in tightly sealed containers.

PACKING

250 Kgs UN approved HDPE drums.

REACH Status

Not registered

ExSyn offers 1,3-Dibromopropane 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 contact us.