

# Dibutyl Sulfide

## PRODUCT IN FOCUS



## Dibutyl sulfide

### INTRODUCTION

Dibutyl sulfide is an organosulfur. It is a clear, colorless to pale yellow liquid characterized by a strong sulfur-like odor and is primarily used as an intermediate in chemical synthesis, specialty organic manufacturing, and research applications. The compound exhibits good solvency properties and moderate thermal stability, making it useful in industrial and laboratory processes involving sulfur-containing organic compounds.

### MANUFACTURE

Dibutyl sulfide is commonly manufactured through the reaction of butyl halides, such as butyl chloride or butyl bromide, with sodium sulfide or related sulfide salts under controlled temperature and pressure conditions. The process typically involves nucleophilic substitution reactions carried out in suitable organic solvents, followed by purification through distillation to achieve the desired purity.

#### Synonyms

di-n-butyl sulfide, dibutyl thioether, butyl sulfide, thio-bis-butane, and sulfur dibutyl.

#### CAS no.

544-40-1

#### EINECS no.

208-870-5

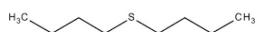
#### Molecular formula

$C_8H_{18}S$

#### Molecular weight

146.29

#### Structure



### APPLICATIONS

Chemical intermediate in the synthesis of:

- ❶ Pharmaceuticals
- ❶ Agrochemicals
- ❶ Specialty sulfur-containing organic compounds
- ❶ Solvent and processing aid in certain industrial formulations and research laboratories.
- ❶ Utilized in catalyst systems
- ❶ Extraction processes
- ❶ Preparation of organosulfur derivatives used in performance chemicals and fine chemical manufacturing.

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### SPECIFICATIONS

Test	Unit	Specification
Appearance	-	Colorless to pale yellow liquid
Odor	-	Alliaceous, green violet
Refractive index (20°C)	-	1.449 – 1.456
Specific gravity (20°C)	-	0.834 - 0.841
Water Content	%	Max. 0.5
Assay (By GC)	% w/w	Min. 99.0

### PACKING

Air Shipment: 25 kg UN approved drums  
Sea Shipment: 180 Kgs UN Approved drums

### STORAGE

Dibutyl sulfide should be stored in tightly sealed containers in a cool, dry, and well-ventilated area away from heat, sparks, open flames, and oxidizing agents. Containers should be protected from direct sunlight and excessive moisture to maintain product stability and purity.

### REACH status

Not registered

ExSyn offers Dibutyl Sulfide on commercial scales and welcomes enquiries. Our exceptional quality and service will make ExSyn your supplier of choice! If you need additional information or SDS, please contact us.