

# Technical Data Sheet (TDS) Diisobutylaluminum Hydride (DIBAL-H)

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## TUODA

#### **Technical Data Sheet (TDS)**

#### **Product Description**

Diisobutylaluminum Hydride (DIBAL-H) is a highly reactive, colorless to pale yellow liquid widely used as a selective reducing agent in organic synthesis. It is also employed as a catalyst component in polymerization reactions. DIBAL-H reacts violently with water and air.

#### **Applications**

- Selective reduction of esters to aldehydes in organic synthesis.
- Reducing agent in fine chemical production.
- Catalyst component in polymerization reactions.

#### **Chemical Information**

Chemical Name: Diisobutylaluminum Hydride

Chemical Formula: C8H18AIH
CAS No.: 1191-15-7
EINECS/ELINCS No.: 214-738-0
Molecular Weight: 128.22 g/mol

#### **Specifications**

Appearance Colorless to pale yellow liquid

**Purity** >= 95%

**Hydride Content** approximately 7.5-8.5 wt%

Density at 20°C 0.79 g/cm<sup>3</sup>

#### **Typical Properties**

Melting Point < -80°C

**Boiling Point** 84-86°C (under reduced pressure)

Flash Point -17°C

**Solubility** Decomposes violently in water

#### **Packaging**

Available in ASME-certified cylinders, stainless steel containers, or customized packaging solutions compliant with IMDG regulations.

#### Storage and Handling

- Store under dry inert atmosphere (nitrogen or argon).
- Protect from air, moisture, and heat.
- Handle in a well-ventilated area equipped for flammable materials.

#### Safety and Regulatory Information

- Classified as pyrophoric and water-reactive under GHS.
- Refer to MSDS for detailed safety procedures.
- Compliant with TSCA (US) and EINECS (EU) listings.



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#### **Disclaimer**

This document is provided for informational purposes only. Tuoda Industry Limited does not guarantee the product's suitability for any particular application. Customers must verify compliance with local regulations.