

PRODUCT IN FOCUS

Tridodecylamine

INTRODUCTION

Tridodecylamine is a tertiary fatty amine. Its structure depicts 3 long carbon chains. They are responsible for the hydrophobic nature of the molecule and its hierarchy of applications. It is naturally found in *Bos taurus* and has a role as rat / mouse metabolite.

Manufacture

The product is manufactured in a condensation process involving dodecanol and ammonia. Some processes use dodecyl bromide.

Synonyms	Trilaurylamine Hydrogen ionophore N,N-Didodecyldodecan-1-amine
CAS no.	102-87-4
EINECS no.	203-063-4
Molecular formula	C ₃₆ H ₇₅ N
Molecular weight	522.0
Structure	$\begin{array}{c} \text{(CH}_2\text{)}_{11}\text{CH}_3 \\ \\ \text{CH}_3\text{(CH}_2\text{)}_{11}\text{N} \text{---} \text{(CH}_2\text{)}_{11}\text{CH}_3 \end{array}$

Applications

Tridodecylamine has various end uses:

- ✔ As fragrance ingredient
- ✔ For extraction of picolinic acid, citric acid, and succinic acid as well as silver, mercury, selenium, zinc, cobalt, and iron from their aqueous solutions
- ✔ In synthesis of surfactant-based ionic liquids
- ✔ In preparation of embedded telemetry systems for potentiometric sensors
- ✔ As antistatic agent in cosmetics
- ✔ As an intermediate in surfactant production
- ✔ As emulsifying and dispersing agent
- ✔ As corrosion inhibitor and lubricant
- ✔ As ionophore
- ✔ As surface active agent, adsorbent, and absorbent in industrial processes



TRIDODECYLAMINE

PRODUCT IN FOCUS



SPECIFICATIONS

Test	Unit	Specification
Appearance (at 25°C)	-	Colorless to yellowish transparent liquid
Color	Hazen	Max 150
Tertiary amine value	mg KOH/g	105.0 – 109.0
Tertiary amine nitrogen	%	Min 2.5
Water	%	Max 0.5
Tertiary amine content	%	Min 93.0

STORAGE

The product is stored at ambient temperature.

PACKING

Sea shipment - 160 kg UN-approved HDPE drum.

Air shipment - 20 kg UN-approved HDPE drum.

REACH Status

Not registered yet.

ExSyn offers tridodecylamine 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.