

# Tri-n-butylamine

## Technical Data Sheet

January 1997

Formula:.....  $C_{12}H_{27}N$   
Molecular Weight:..... 185.4  
Product Number: ..... 022581  
CAS Registry Number:.... 102-82-9



Product Specifications	Value	Test Method
Assay, % minimum	98.0	G.C.
Water, % maximum	0.5	Karl Fischer
Color, APHA, maximum	20	Pt/Co
Suspended matter	none	visual

### Physical Properties

Freezing point, °C	< - 70
Boiling point, °C	215
Density @ 20°C, g/cm <sup>3</sup>	0.78
Flash point, °C	70
Weight/gallon, lbs.	6.5

### Description

Tri-n-butylamine is a colorless liquid, free of suspended matter. It is immiscible with water but miscible with almost all common organic solvents.

### Safety

Tri-n-butylamine is corrosive to the skin and eyes. Direct contact results in burns and eye injury. Ingestion results in damage to the gastrointestinal tract. Vapors and mists irritate the respiratory tract. Overexposure may result in sensitization.

Always refer to the Material Safety Data Sheet (MSDS) for detailed information on safety.

### Applications

Intermediate used in the production of:

- corrosion inhibitors
- agricultural chemicals
- petroleum
- fuel and lubricant additives
- photochemicals
- pharmaceuticals
- textile dye and rubber auxiliaries
- viscosity stabilizers, paints and lacquers

It is also used as a catalyst in the production of polymers, e.g., phenolic resins, and polyurethane foams.

### Packaging

Available in bulk containers and 319 lb (net weight) non-returnable steel drums.

### Storage & Handling

Tri-n-butylamine has an almost unlimited shelf life in unopened, original containers if protected from heat and properly stored in a protected storage area. It is neither explosive nor spontaneously flammable in air. However, it is combustible.

Always refer to the Material Safety Data Sheet (MSDS) for detailed information on handling and disposal.

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