

**F E C T**

**FAR-EAST CHEMICAL TRADING CO., LTD.**

PROPALACE-AZUCHIMACHI-BUILDING,  
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**TIPA**

Triisopropanolamine 85%

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**INTRODUCTION**

Isopropanolamine is a hydroxylamine compound with organic amine and hydroxyl; as well it is a general expression of Monoisopropanolamine (MIPA), Diisopropanolamine (DIPA), Triisopropanolamine (TIPA).

Chemical Name: 1,1',1''-Nitrilotri-2-propanol

CAS No.: 122-20-3

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**PRODUCT SPECIFICATION**

TIPA Content:	85.0% Min.
MIPA and DIPA Content:	3.0% Max.
Water Content:	10.0% - 15.0%
Appearance:	Colorless to light yellow liquid
Structure Formula:	C <sub>9</sub> H <sub>21</sub> NO <sub>3</sub>

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**PHYSICAL AND CHEMICAL CHARACTERISTICS**

Physical Form(25°C):	Liquid
Color:	Colorless to light yellow
Freezing Point:	3-8°C
Boiling Point:	104-107°C
Smelling:	Very light ammoniac odor
Flash Point:	Min.154°C on dry base
Specific Gravity (25/4°C):	1.027
Viscosity (25°C):	400-500cps

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<b>APPLICATIONS</b>	Cement & Concrete	Improves the grinding efficiency resulting in energy savings; prevents from agglomeration or
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Rubber curing	clumping; as water reducing agent.
Polyurethane	Chain terminator in isoprene polymerization.
Metal working	Used as Cross-linker to improve PU foam quality.
	Used to improve corrosion protection, antioxidant.

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**PACKING**                      Packed in iron drum, net weight 215kg. Isotank and IBC packing are also available or can be specified according to customer's requests.

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**STORAGE**                      Shelf time of TIPA 85% is one year , and after then it could still be available once has passed a chemical test.

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**SAFETY & TOXICITY**

Generally present no toxicity, alkalescency but do not irritate skin.  
Higher flashing point, it should be prevented the material from spilling into the eyes while handling.

Revision date: 2018-1-2