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Hefei TNJ Chemical Industry Co.,Ltd.
B911 Xincheng Business Center,
Qianshan Rd. Hefei 230022 China
Tel : (0086) 551 65418695
Fax: (0086) 551 65418697
Email: info@tnjchem.com
Site: www.tnjchem.com

Technical Data Sheet

Triisopropanolamine

Product Information

Chemical Name	Triisopropanolamine
CAS #	122-20-3
Formula	C ₉ H ₂₁ NO ₃
Molecular Weight	191.3
Synonyms	1,1',1''-Nitrilotripropan-2-ol;1,1',1''-Nitrilotri-2-propanol

Chemical Structure



Description

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

Physical Properties

Color:	Colourless or slight yellow
Melting Point:	45°C
Boiling Point:	305°C
Smelling:	Very light ammoniacal odour
Flash Point Min.	130°C
Specific Gravity(25/4°C):	1.0
Viscosity (60°C):	141mPas

Specification

Items	Specification
Appearance	Colorless or light yellow liquid
Water, %	13+0.5
Diisopropanolamine,%	≤3.0
Triisopropanolamine ,%	≥85.0%

Safety

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

Always refer to the Material Safety Data Sheet (MSDS)

Applications

Cement additives: Increase strength, improve the grinding efficiency and reduce material consumption, to prevent condensation of the cluster
Rubber chain: termination agent, rubber performance can be improved
Polyurethane: rubber chain, improve the performance of polyurethane
Metal processing: as rust remover, antioxidants, annealing, quenching.

Packaging

200kg per iron drum.
16mt per 20ft container

Storage & Handling

Shelf time of TIPA 98% is one year, and after then it could still be available once has passed a chemical test.

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

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Qianshan Road, Hefei
230022 Anhui
China

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