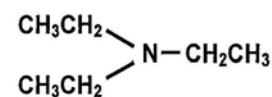


Triethylamine

Technical Data Sheet



Empirical Formula $\text{C}_6\text{H}_{15}\text{N}$
Molecular Weight 101.19
CAS # 121-44-8

Chemical Synonym

TEA

Physical & Chemical behaviour

Triethylamine (TEA) is a colorless liquid with an ammonia-like odor.

Specifications

Specification property	Specification limits			Analytical method
	UNIT	MIN	MAX	
Triethylamine	Wt %	99.5		CM-007-91
Water	Wt %		0.10	CM-91-88
Color	APHA		15	CM-92-88 (S) 94-CM-081 (P)
Monoethylamine	Wt %		0.1	CM-007-91
Diethylamine	Wt %		0.1	CM-007-91
Ethanol	Wt%		0.05	CM-007-91
N-Ethylidene-Ethylamine	Wt %		0.1	CM-007-91
Suspended Matter	Substantially Free			CM-99-88

Physical properties

Property	Value
Specific Gravity @20°C/20°C	0.726 – 0.730
Liquid Density	
lb/gal@68°F	6.07
g/ml@20°C	0.73
Freezing Point	
°F@1atm	<-58
°C@1atm	<-50
Vapor Pressure mm Hg	
@68°F	53
kPa@20°C	7.03
Vapor Pressure mm Hg	
@104°F	134
kPa@40°C	17.80
Normal Boiling Point	
°F	190.69
°C	88.16
Critical Temperature	
°F	503.70
°C	262.06
Critical Pressure	
Atm	30.00
kPa	3040
Flash Point, Closed Cup	
°F	<32
°C	<0
kPa	10.72
Latent Heat of Vaporization Btu/lb	
@1atm J/G	133.71
@1atm	311.01

Applications

- Foundry Resin Catalyst
- Pesticides
- Pharmaceuticals
- Paints/Coatings
- Phenolic Resin Catalyst
- Diethylhydroxylamine
- Quaternary Ammonium Compounds

Labeling

See Material Safety Data Sheet

Transport regulations

See Material Safety Data Sheet

Toxicology / Ecotoxicology

See Material Safety Data Sheet

Characteristics

See Material Safety Data Sheet

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