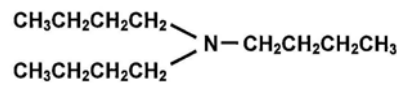


Tri-n-Butylamine

Technical Data Sheet



Empirical Formula $\text{C}_{12}\text{H}_{27}\text{N}$
 Molecular Weight 185.36
 CAS # 102-82-9

Chemical Synonym
 TNBA

Physical & Chemical behaviour

Tri-n-Butylamine (TNBA) is a clear liquid. TNBA is insoluble in water and very soluble in alcohol and ether.

Specifications

Specification property	Specification limits			Analytical method
	UNIT	MIN	MAX	
Tri-n-butylamine	Wt %	98.5		CM-88-88
Water	Wt %		0.1	CM-91-88
Color	APHA		100	94-CM-081
Mononormalbutyl-amine	Wt %		0.1	CM-88-88
Dinormalbutyl-amine	Wt %		0.5	CM-88-88

Physical properties

Property	Value
Specific Gravity 20°C/20°C	0.776 – 0.783
Liquid Density	
lb/gal@68°F	6.48
g/ml@20°C	0.78
Freezing Point	
°F@1atm	<-58
°C@1atm	<-50
Vapor Pressure mm Hg	
@68°F	19
kPa@20°C	0.03
Vapor Pressure mm Hg	
@104°F	0.80
kPa@40°C	0.11
Normal Boiling Point	
°F	414.73
°C	212.63
Critical Temperature	
°F	697.80
°C	369.89
Critical Pressure	
Atm	18.00
kPa	1824
Flash Point, Closed Cup	
°F	162.5
°C	72.50
kPa	---
Latent Heat of Vaporization Btu/lb	
@1atm J/G	101.88
@1atm	236.97
Identifying Characteristics	
Distillation Range °C	196 - 221

Applications

- Phase Transfer Catalyst
- Solvents
- Pharmaceuticals
- 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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