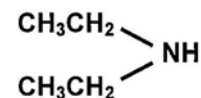


Diethylamine

Technical Data Sheet



Empirical Formula $\text{C}_4\text{H}_{11}\text{N}$
Molecular Weight 73.14
CAS # 109-89-7

Chemical Synonym

DEA

Physical & Chemical behaviour

Diethylamine (DEA) is available as an anhydrous colorless liquid. DEA has an ammonia-like odor

Specifications

Specification property	Specification limits			Analytical method
	UNIT	MIN	MAX	
Diethylamine	Wt %	99.7		CM-008-91
Water	Wt %		0.20	CM-91-88
Color	APHA		15	CM-92-88 (S) 94-CM-081 (P)
Any Single Impurity < 0,20 %			OK	CM-008-91
N-Ethylidene-Ethylamine	Wt %		0.20	CM-008-91
Monoethylamine+ Monoisopropylamine	Wt %		0.03	CM-008-91
Monoethylamine	Wt %		0.02	CM-008-91
Ethanol	Wt %		0.1	CM-008-91
Triethylamine	Wt %		0.1	CM-008-91
Suspended Matter	Substantially Free			

Physical properties

Property	Value
Specific Gravity 25°C/25°C	0.699 – 0.703
Liquid Density	
lb/gal@68°F	5.86
g/ml@20°C	0.70
Freezing Point	
°F@1atm	<-58
°C@1atm	<-50
Vapor Pressure mm Hg	
@68°F	189
kPa@20°C	25.21
Vapor Pressure mm Hg	
@104°F	430
kPa@40°C	57.23
Normal Boiling Point	
°F	132.59
°C	55.88
Critical Temperature	
°F	433.20
°C	222.89
Critical Pressure	
Atm	36.60
kPa	3709
Flash Point, Closed Cup	
°F	<32
°C	<0
kPa	11.09
Latent Heat of Vaporization Btu/lb	
@1atm J/G	172.61
@1atm	401.48
Refractive Index	
@25°C/DC	1.383 – 1.384

Applications

- Alkylalkanolamine
- DEET Pesticides
- Pharmaceuticals
- Rubber Accelerators

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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