



Pentaethylenehexamine - PEHA



Molecular Weight	232 (<i>Linear component</i>)
CAS Reg. No.	4067-16-7
EINECS No.	303-289-8

Synonyms

3,6,9,12-tetraazatetradecane-1,14-diamine
1,2-ethanediamine, N,N'-bis-(2-aminoethyl)-N'-[2-
{(2-aminoethyl)amino}ethyl]-1,2-ethanediamine,
N,N,N'-tetrakis-(2-aminoethyl)-

Specification

Appearance	clear, yellow, viscous liquid
Assay (basic nitrogen)	min. 30.5% (<i>titr.</i>)
Water	max. 0.5% (<i>KF titr.</i>)
Appearance	clear, yellow, viscous liquid

Test methods are available upon request.

Typical Properties

Boiling Range	approx. 220-290°C (<i>at 20 mbar</i>)
Density	1000 kg/m ³ at 20°C
Flash Point	175°C (<i>Open Cup</i>)
Vapor Pressure	<0.1 mbar at 20°C
Primary Nitrogen	approx. 16%
Secondary Nitrogen	approx. 11%
Tertiary Nitrogen	approx. 4.5%
Color	approx. 5 Gardner

Solubility

water	miscible, hygroscopic
ethanol	miscible
acetone	miscible
ether	miscible
benzene	miscible
hexane	immiscible

Corrodes copper and its alloys. Reacts with aldehydes, acids and chlorinated hydrocarbons. Absorbs carbon dioxide from air.

Applications

Intermediate for the synthesis of:

- coatings and auxiliaries
- coolants, lubricants and antifreezes
- plastics and auxiliaries
- auxiliaries for the recovery and processing of oil, coal and natural gas
- auxiliaries for the construction industry

Packaging

Delivered in stainless steel road tankers, bulk containers, IBC containing 1000 kg net and in mild steel drums containing 200 kg net.

2009-05