



## Berolamine – 20 (BA-20)

High-boiling ethylene amines and ethanolamines mixture

CAS Reg. No. 84238-53-9 (Europe)  
68910-05-4 (USA)  
EINECS No. 282-508-4

### Chemical Composition

Higher polyethylene polyamines approx. 55%  
(isomers of TETA, TEPA, PEHA, and higher)  
Alkanolamines approx. 45%  
(AEEA, DEA, Hydroxyethyl, DETA, and higher)

### Specification

Appearance dark brown, viscous liquid  
Amine Number 1150-1350 mg KOH/g (*titr.*)  
Water max. 1.0 (*KF titr.*)  
Viscosity <100 mPa·s at 50°C

*Test methods are available upon request.*

### Typical Properties

Melting Point <-20° C  
Boiling Point >270° C  
Density 1070 kg/m<sup>3</sup> at 20°C  
1050 kg/m<sup>3</sup> at 50°C  
Viscosity approx. 300 mPa·s at 20°C  
Hydroxyl Number approx. 350 mg KOH/g  
Flash Point >180°C  
Vapor Pressure approx. 2 Pa at 20°C  
Refract. Index,  $n_D^{20}$  1.485  
Odor mildly ammoniacal

### Solubility

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

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

### Applications

Epoxy-curing agent, cement grinding agent, intermediate in the manufacture of asphalt additives, polyamide resins, corrosion inhibitors, oilfield chemicals, flotation agents, etc.

### Packaging

Delivered in road tankers and bulk containers. Mild steel drums containing 210 kg net are also available.

2009-03