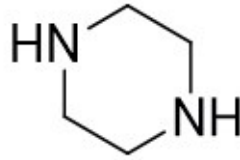


Piperazine 68 (PIP-68)

Piperazine



Piperazine is a cyclic ethylene amine with two secondary amine groups. Piperazine 68% contains 68% active content diluted with water (PIP-68). Piperazine application fields include pharmaceutical, polyamide, gas sweetening and PU catalysts.

CAS number
110-85-0

EINECS/ELINCS No.
203-808-3

Molecular weight
86.1

Molecular formula
C₄H₁₀N₂

Specifications

Appearance (MOA 200)	Clear liquid or white solid
Piperazine (MOA 555)	67-69, min 99.7 (as water free) wt%
Color (MOA 201)	≤ 30 Hazen
Water (MOA 305)	31-33 wt%

Characteristics

Form	Solid at 20°C
Color	Colorless
Odor	Amine like
Water solubility	150 g/l, 20°C
Solubility in other solvents	Acetone;Ethanol
pH, 15% solution	10-12
Melting point/freezing point, 1013 hPa	35-45 °C
Boiling point/boiling range, 1013 hPa	110 °C
Flash point, 1013 hPa	85,5 °C
Ignition temperature	> 150 °C
Vapor pressure, 20°C	2.6 hPa
Relative vapor density, air = 1.0	3.0
Density, 50°C	1020 kg/m ³
Relative density, 50°C	1.020
Dynamic viscosity, 50°C	15 mPa.s

Notes:

Methods of Analysis (MOA) are available upon request. In case of dispute, the listed Method of Analysis will be used as reference methods.

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