Technical Information

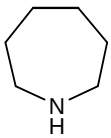
DYTEK® Hexamethyleneimine (HMI)

Hexamethyleneimine

$C_6H_{13}N$

Product Description

DYTEK® HMI is a clear, colorless liquid with an ammonia-like odor.



Applications—Intermediate for

- Pharmaceuticals
- Agricultural chemicals
- Zeolite manufacture
- Dyes
- Inks
- Rubber chemicals
- Textile chemicals
- Corrosion inhibitors
- Ore flotation

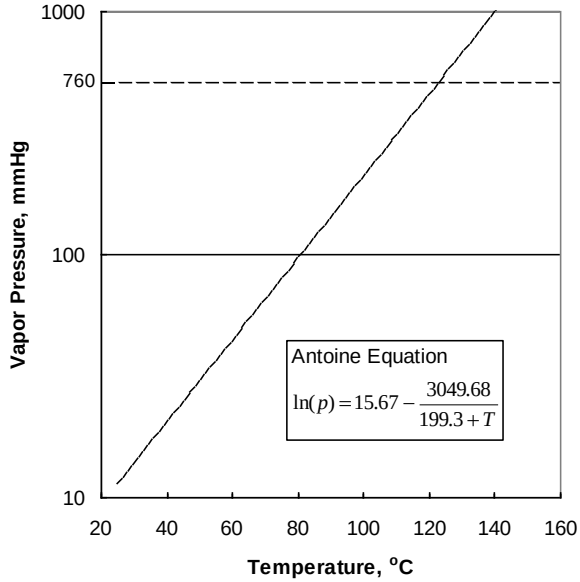
General Information

CAS Registry Number	111-49-9
CAS Name	1H-Azepine, Hexahydro-
Molecular Weight	99.2
Amine Value	560
Specific Gravity, 25°C (77°F)	0.88
Boiling Point, °C, 760 mmHg	138
Vapor Pressure, 25°C (77°F), mmHg	9 (48)
Melting Point, °C (°F)	–37 (-34.6)
Heat of Vaporization, kcal/mol	9.3
Vapor Pressure	See **Figure 1**
Flash Point, cc, °C (°F)	22 (71.6)
Refractive Index, η_D, 20°C (68°F)	1.463

Typical Composition (wt %)

Hexamethyleneimine	99.5
Cyclohexylamine	0.38
n-Hexylamine	0.02
Water	0.07
Hexamethylenediamine	0.02

Figure 1. Vapor Pressure of Dytek® HMI



Dytek®

15 March 2012

Shipping

DOT/IMO Proper Shipping Name:	Hexamethyleneimine
Hazard Class:	3
UN Number:	2493
Packaging Group:	II
DOT/IMO Label:	Flammable Liquid, Corrosive
Subsidiary Hazard Class:	Corrosive

Packaging

	Net Weight (lbs/kg)
Railcar	150,000/68,040
Tank truck	45,000/20,400
ISO containers	40,000/18,000
Drums	400/181
EU Drums	180 kg

For Samples and Information:

INVISTA™ Specialty Intermediates • (800) 231-0998

www.DYTEK.INVISTA.com

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