

Triethylenetetramine (TETA)

N'-[2-(2-aminoethylamino)ethyl]ethane-1,2-diamine

Triethylenetetramine (TETA) is a colorless to light-yellow liquid containing linear, branched and cyclic molecules. TETA is mainly used in the manufacture of fuel oil additives, lubricating oil additives and epoxy curing agents. It is also used in the production of asphalt additives.

CAS number
90640-67-8, 112-24-3 (L-TETA)

EINECS/ELINCS No.
203-950-6 (L-TETA)

Molecular weight
146.24 (L-TETA)

Molecular formula
C₆H₁₈N₄ (L-TETA)

Specifications

Appearance (MOA 200)	Clear liquid
Assay, tetramines (MOA 511)	≥ 96.0 Area%
Color (MOA 201)	≤ 50 Hazen
Water (MOA 305)	≤ 0.5 wt%

Characteristics

Form	Viscous liquid
Color	Light yellow
Odor	Ammonical
Explosive properties	No
Flammability, liquids	Not classified as a flammability hazard
Oxidizing properties	No
Water solubility	Soluble
Solubility in other solvents	Acetone, Methanol
pH, 100% solution	13
Melting point/freezing point, 1013 hPa	< -20 °C
Boiling point/boiling range, 1013 hPa	274.6 °C
Flash point, 1013 hPa, closed cup	118 °C
Vapor pressure, 20°C	0.0035 hPa
Relative vapor density, air = 1.0	5.04
Density, 25°C	971 kg/m ³
Relative density, 25°C	0.971
Partition coefficient, N-octanol/water, 20°C, log Pow	-2.65
Dynamic viscosity, 40°C	13.9-20 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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