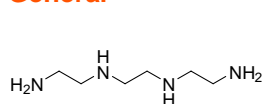


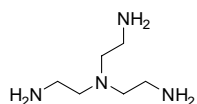
## Technical Data Sheet

# TRIETHYLENETETRAMINE (TETA)

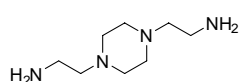
### General



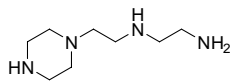
L-TETA



Branched-TETA



Bis-AEP



PEEDA (Piperazineethyl-EDA)

CAS No.: 90640-67-8/112-24-3 (L-TETA)

EINECS No.: 203-950-6 (L-TETA)

IUPAC name: Triethylenetetramine linear, cyclic and branched

Triethylenetetramine (TETA; CAS 90640-67-8 and 112-24-3) 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.

MW: 146.24 gmol<sup>-1</sup>

### Sales Specification

Characteristic	Unit	Specification	Methods of Analysis
Appearance	-	Clear liquid	200
Assay (Tetramines)	Area%	min 96.0	511
Water	w%	max 0.5	305
Color	Hazen	max 50	201

Methods of Analysis are available upon request.

In case of dispute, the listed Method of Analysis will be used as reference methods.

### Physical and Chemical Properties

Property	Value	Property	Value
Form	viscous liquid	pH	13 at 100 % solution
Colour	light yellow	Melting point/freezing point	< -20 °C
Odour	ammoniacal	Boiling point/boiling range	274,6 °C
Flammability (liquids)	Not classified as a flammability hazard	Flash point	118 °C Method: closed cup
Explosive properties	Not explosive	Vapour pressure	0,0035 hPa at 20 °C
Oxidizing properties	The substance or mixture is not classified as oxidizing	Relative vapour density	5,04 (Air = 1.0)
Water solubility	> 1 000 g/l at 20 °C	Density	971 kg/m3 at 25 °C
Solubility in other solvents	Soluble in Methanol, Acetone	Relative density	0,971
		Partition coefficient: n-octanol/water	log Pow: -2,65 at 20 °C
		Viscosity, dynamic	13,9 - 20 mPa.s at 40 °C

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