

Tetraethylenepentamine (TEPA)

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

Tetraethylenepentamine (TEPA) is a yellowish liquid containing linear, branched and cyclic molecules. TEPA is commonly used as an additive in fuel and lubricating oil production, as an epoxy curing agent or in the manufacture of asphalt additives.

CAS number EINECS/ELINCS No. 90640-66-7, 112-57-2 203-986-2 (L-TEPA) (L-TEPA)

Molecular weight 189.31 (L-TEPA)

Molecular formula C₈H₂₃N₅ (L-TEPA)

Specifications

Appearance (MOA 200)	Clear yellowish liquid
Assay, pentamines (MOA 507)	≥ 95.0 Area%
Color (MOA 201)	≤ 5 Gardner
Water (MOA 305)	≤ 0.5 wt%

Characteristics

Form	Viscous liquid
Color	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, 2% solution	11.8
Melting point/freezing point, 1013 hPa	< -20 °C
Boiling point/boiling range, 1013 hPa	375 °C
Flash point, 1013 hPa, closed cup	> 175 °C
Vapor pressure, 20°C	0.00019 hPa
Relative vapor density, air = 1.0	6.53
Density, 20°C	993 kg/m³
Relative density, 20°C	0.993
Partition coefficient, N-octanol/water, 20°C, log Pow	-3.16
Dynamic viscosity, 20°C	80 mPa.s

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

All information concerning this product and/or suggestions for handling and use contained herein are offered in good faith and are believed to be reliable. Nouryon, however, makes no warranty as to accuracy and/or sufficiency of such information and/or suggestions, as to the product's merchantability or fitness for any particular purpose, or that any suggested use will not infringe any patent. Nouryon does not accept any liability whatsoever arising out of the use of or reliance on this information, or out of the use or the performance of the product. Nothing contained herein shall be construed as granting or extending any license under any patent. Customer must determine for himself, by preliminary tests or otherwise, the suitability of this product for his purposes. The information contained herein supersedes all previously issued information on the subject matter covered. The customer may forward, distribute, and/or photocopy this document only if unaltered and complete, including all of its headers and footers, and should refrain from any unauthorized use. Don't copy this document to a website.

For more information, please visit our website at www.nouryon.com.

