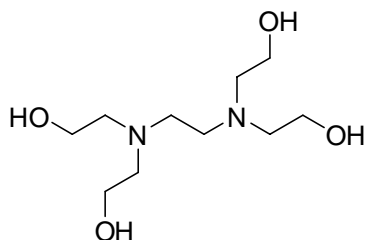


Technical Data Sheet

TETRAHYDROXYETHYLETHYLENEDIAMINE (THEEDA)

General



MW: 236.31 gmol⁻¹
CAS No.: 140-07-8
EINECS No.: 205-396-0
IUPAC name: 2,2',2'',2'''-(1,2-Ethanediyldinitrilo)tetraethanol

Sales Specification

Characteristic	Unit	Specification	Methods of Analysis
Appearance	-	clear, viscous liquid	200
Tertiary Amine Number	mgKOH/g	442-485	237
Total Amine Number	mgKOH/g	465-485	234
Percentage of Tertiary amines	%	min 95	Calculated
Color	G	max 7	201

Methods of Analysis are available upon request.

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

Typical Value

Viscosity, dynamic	Ca. 1000 mPa·s at 40°C
Hydroxyl value	930-950 mgKOH/g
Functionality (average)	3.9
Equivalent weight	59.9

Physical and Chemical Properties

Property	Value	Property	Value
Form	Viscous liquid		
Colour	Light yellow		
Odor	ammoniacal	Boiling point/boiling range	280 °C at 1 013 hPa
Flammability (liquids)	Not classified as a flammability hazard	Flash point	110 °C at 1 013 hPa
Explosive properties	Not explosive	Vapor pressure	< 0,01 hPa Method: Calculation method
Oxidizing properties	The substance or mixture is not classified as oxidizing.	Relative density	1,13 at 25 °C
Water solubility	soluble.		
Solubility in other solvents	Soluble in ethanol.	Partition coefficient: n-octanol/water	log Pow: -4,7 at 25 °C

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