

**QUALITY CERTIFICATE**

Product name: TROLAMINE  
Quality: Ph.Eur.11.0.  
Package: 25 g  
Formula:  $C_6H_{15}NO_3$   
Rel. mol. weight: 149,19  
Lot No.: GR5962684  
Manufacturing date: 05.2024.  
Expiry date: 06.08.2027. (DMY)  
Anal. No.: 19520H62684

	<b>REQUIRED</b>	<b>MEASURED</b>
Appearance:	clear, colourless or slightly yellowish, viscous liquid	clear, colourless, viscous liquid
Assay (T, anhydr. substance)	99,0-103,0 m/m %	99,4 %
Identification test 'A'	identical	identical
Solubility	miscible with water and with ethanol (96 per cent), soluble in methylene chloride	miscible with water and with ethanol (96 per cent), soluble in methylene chloride
Appearance of solution	passes test (<B <sub>6</sub> )	passes test
Density (d <sub>20</sub> <sup>20</sup> )	1,120-1,130	1,120
Refractive index (n <sub>D</sub> <sup>20</sup> )	1,482-1,485	1,482
Ethanolamine (GC)	max.0,1 %	<0,1 %
Diethanolamine (GC)	max.0,5 %	<0,5 %
Total other impurities	max.1,0 %	<1,0 %
N-Nitroso-diethanolamine	max.24 ppb	<24 ppb
Water (KF.)	max.1,0 %	0,0567 %
Sulphated ash	max.0,1 %	0,00 %

**The Product complies with the requirements of Ph.Eur.11.0.**

Kiállítva: Halásztelek, 2024.09.24.



Nagy Balázs

minőségbiztosítási vezető

**Molar Chemicals Kft.**  
2314 Halásztelek, Árpád utca 1.  
Adószám: 10886713-2-13  
Cégj.sz.: 13-09-1. 67293