

**QUALITY CERTIFICATE**

Product name: TARTARIC ACID  
Quality: Ph.Eur.11.0.  
Package: 100 g  
Formula: C<sub>4</sub>H<sub>6</sub>O<sub>6</sub>  
Rel. mol. weight: 150,09  
Lot No.: GC5961093  
Manufacturing date: 09.2022.  
Expiry date: 31.05.2028. (DMY)  
Anal. No.: 15057H61093

	<b>REQUIRED</b>	<b>MEASURED</b>
Appearance:	white or almost white crystalline powder or colourless crystals	white crystalline powder
Identification test 'A'	identical	identical
Identification test 'B'	identical	identical
Assay	99,5-101,0 %	99,94 %
Solubility	freely soluble in water, soluble in ethanol (96 per cent)	freely soluble in water, soluble in ethanol (96 per cent)
Appearance of solution	passes test (max. Y6)	passes test (max. Y6)
[α] <sub>D</sub> <sup>20</sup> (dried subst.)	(+12)-(+12,8) °	12,74 °
Oxalic acid (calc. on dry)	max.360 ppm	<360 ppm
Chloride	max.100 ppm	<100 ppm
Sulfate	max.150 ppm	<150 ppm
Calcium (Ca)	max.200 ppm	<200 ppm
Heavy metals (Pb)	max.10 ppm	<10 ppm
Loss on drying (105□C)	max.0,2 %	0,17 %
Sulphated ash	max.0,1 %	0,0097 %

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

Kiállítva: Halásztelek, 2023.06.23.

  
Nagy Balázs

minőségbiztosítási vezető

**Molar Chemicals Kft.**  
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