

QUALITY CERTIFICATE

Product name: GLYCEROL (85 PER CENT)
Quality: Ph.Eur.9.0.
Package: 1000 g
Formula: $C_3H_8O_3$
Rel. mol. weight: 92,10
Lot No.: CS7302597 ✓
Manufacturing date: 11.2017.
Expiry date: 02.11.2018. (DMY)
Anal. No.: 74814H02597
Orig. manufacturer: GLACON
Orig. Lot No.: AZ-17-2040

| | REQUIRED | MEASURED |
|--------------------------------------|---|---|
| Appearance | clear, almost colourless syrup-like, thick liquid | clear, almost colourless syrup-like, thick liquid |
| Identity | identical | identical |
| Assay | 83,5-88,5 % | 86,6 % % |
| Appearance of solution | passes test | passes test |
| Alkalinity, acidity | passes test | passes test |
| Refractive index (n_D^{20}) | 1,449-1,455 | 1,451 |
| Aldehydes | max.10 ppm | <10 ppm ppm |
| Esters | passes test | passes test |
| Impurities 'A' and related compounds | passes test | passes test |
| Total impurity (by GC) | max.0,5 % | <0,5 % % |
| Sugars | passes test | passes test |
| Chloride | max.10 ppm | <10 ppm ppm |
| Heavy metals (Pb) | max.5 ppm | <5 ppm ppm |
| Water (KF.) | 12,0-16,0 % | 13,4 % % |
| Sulphated ash | 0,01 % | 0 % % |
| Halogen compounds | max.30 ppm | <30 ppm ppm |

The Product complies with the requirements of Ph.Eur.9.0.

Halásztelek, 15.01.2018. (DMY)

Ferenc Kálmán Ph.D.
Quality Assurance Manager

