

Reference procedure

Gas chromatographic precision determination (GC-FID)
of ethanol in water

Proof of competence

CMC entry and ISO/IEC 17025 accreditation

Testing quantities and objects

mass fraction of ethanol in water
minimum sample volume 10 mL

Testing range

mass fraction from 0.2 to 60 g/kg

Expanded measurement uncertainty ($k = 2$)

relative expanded uncertainty $U(x)$ between 1 to 0.5 % (depending on x)

Field of application

chemistry

References

R. Philipp, O. Hanebeck, S. Hein, W. Bremser, T. Win, I. Nehls, Ethanol/water solutions as certified reference materials for breath alcohol analyzer calibration *Accreditation and Quality Assurance* **2010**, 15, 3, 141-146, <https://doi.org/10.1007/s00769-009-0605-9>.

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