

## Ti Application Note No. T- 46

True: Soap content of Soap hoodies	Title:	Soap content of soap noodles	
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**Summary:** Determination of the soap content of soap noodles by potentiometric titration with TEGO<sup>®</sup> trant A100 using the lonic Surfactant Electrode.

Sample: Soap noodles

Sample

**Preparation:** Weigh exactly ca. 2.5 g sample (precision 0.1 mg) into a 1000 mL

volumetric flask, then add ca. 800 mL methanol and some drops of phenolphthaleine colour indicator. Neutralise by adding NaOH until the solution turns pink. Remove the magnetic stirring bar, fill the flask

to the mark with methanol and mix the contents.

Instruments and

Accessories: 702, 716, 736 or 751 Titrino or 726 Titroprocessor,

727 Titration Stand, 722 Propeller Rod Stirrer,

6.0507.120 Ionic Surfactant Electrode

Analysis: Pipette 5.00 mL of the prepared sample solution into a beaker, add

ca. 95 mL dist. water and titrate with c(TEGO® trant A100) = 0.004

mol/L.

**Calculation:** RS1: meg soap / 100 g = EP1 \* C01 \* C02 / C00

RS2: % soap = RS1 \* C03

EP1 = titrant consumption in mL

C00 = ca. 0.0125 (g of original sample contained in the sample

volume used for the titration)

C01 = 0.004 (concentration of the titrant in mol/L)

C02 = 100 (conversion factor)

C03 = 0.261 (M(soap) / 1000 in g/mol)

**Remarks:** Results:

AVG(3) = 304 + /-3 meg soap / 100 g

AVG(3) = 79.3 + -0.78 % soap