

CIPAC MT STATUS REPORT

16.01.2007

MT 192 Viscosity of Liquids by Rotational Viscometry

Allocated to DAPF

CIPAC methods published in:

CIPAC L, p.144

CIPAC 48th meeting, June 2004 in Brno

Mr. Grohs presented the results of a collaborative study by DAPF on the viscosity of non-Newtonian liquids by rotational viscometry of formulated pesticides using rotational viscosimeters. The method is based on OECD guideline 114 for testing of chemicals. Thirteen laboratories participated in the study. SL, CS, OD, SE and SC were tested. Problems can occur for SE formulation as they can separate during the test. The RSD for the test is not higher than for other CIPAC MT methods. DAPF proposed the method to be accepted as provisional CIPAC method. Mr. Schreuder asked for standards. Mr. Viets responded that it is not easy to find standards for non-Newtonian liquids. Mr. van der Wal asked why the test-temperature was 20°C, while a R65 classification requires 40°C. Mr. Grohs responded that it is possible to test at 40°C, but that the method is meant to characterise the formulation, not to classify it. Mr. Hill pointed out that it is important to know if the results are normal distributed and that the description of the sample pre-treatment should be improved, as the sample pre-treatment has big influence on the result. Mr. Grohs agreed.

Decision The method using rotational viscosimeters was accepted as provisional CIPAC method. But it is required that the description of the sample pre-treatment should be improved as the sample pre-treatment has big influence on the result.

CIPAC 49th meeting, June 2005 in Utrecht

The method for the determination of the viscosity of non-Newtonian liquid pesticides using rotational viscometry was decided to remain as provisional CIPAC method, since it is still required that the description of the sample pre-treatment should be improved as the sample pre-treatment has big influence on the result.

Decision The method for the determination of the viscosity of non-Newtonian liquid formulations by rotational viscometry remains as **provisional** CIPAC method. It was required that the description of the sample pre-treatment, having significant influence on the results, should be improved.

CIPAC 50th meeting, June 2006 in Geneva.

The method for the determination of the viscosity of non-Newtonian liquid formulations by rotational viscometry, published in CIPAC L, p.145, has been revised and was accepted as **full** CIPAC method (the revision concerns the sample preconditioning in the viscosimeter by shearing the sample at increasing shear rates).