

Scope of tests executed at the Department of Physicochemical Properties and Environmental Protection in accordance with GLP principles:

	Test	Method
1	Determination of relative density of liquids and solids	OECD 109, wytyczne EEC A.3, CIPAC MT 3, ISO 901:1976, ISO 787-10:1993, ISO 3507:1999, ISO 649/1, ISO 649/2, ISO 8130-2:2010
2	Determination of pH values	CIPAC MT 75.3, PN-C-04665:2001
3	Determination of free acidity or alkalinity	PN-C-04665:2001, CIPAC MT 31 i CIPAC MT 191
4	Determination of kinematic viscosity and calculation of dynamic viscosity	OECD 114, PN-EN ISO 3104:2004 PN-ISO 3105:2006, CIPAC MT 22
5	Determination of apparent viscosity by rational viscometry (Brookfield method)	PN-EN ISO 2555:2011, PN-EN 12092:2004, PN-EN-ISO 3219:2000, D-2196, CIPAC MT 192
6	Determination of weight loss of tested material	CIPAC MT 17
7	Ambient temperature storage procedure	Crop Life International Technical Monograph No. 17 oraz Guidance document for the generation of data on the physical, chemical and technical properties of plant protection products under regulation (EC) no. 1107/2009 of the EU Parliament and Council on placing plant protection products on the market
8	Low temperature storage procedure and stability testing of liquids (0°C)	CIPAC MT 39.3 Crop Life International Technical Monograph 17
9	Accelerated storage procedure	CIPAC MT 46.3, Crop Life International Technical Monograph 17
10	Determinatoin of dilution stability	CIPAC MT 41.1, CIPAC MT 179.1, CIPAC MT 196
11	Determination of pourability of suspension concentrates	CIPAC MT 148
12	Determination of wettability of solids	CIPAC MT 53.3
13	Determination of suspensibility of formulations forming suspensions on dilution with water	CIPAC MT 184
14	Emulsifiability, re-emulsifiability and emulsion stability, dispersion stability	CIPAC MT 36.3, MT 180, MT 173, PN-C-04652:1998
15	Determination of persistent foaming	CIPAC MT 47.3, PN-85/C-04661

16	Determination of bulk density	CIPAC MT 186 CIPAC MT 33, BS 1460:1967 ISO PN-EN 1236 i PN-EN 1237, ISO 4788:2005
17	Dry sieve test	CIPAC MT 170 Guidance document for the generation of data on the physical, chemical and technical properties of plant protection products under regulation (EC) no. 1107/2009 of the EU Parliament and Council on placing plant protection products on the market, str. 33
18	Wet sieve test	CIPAC MT 185, CIPAC MT 182 Guidance document for the generation of data on the physical, chemical and technical properties of plant protection products under regulation (EC) no. 1107/2009 of the EU Parliament and Council on placing plant protection products on the market, 33
19	Determination of dissolution rate of water soluble bags	CIPAC MT 176, CIPAC MT 18
20	Packaging stability	Technical Monograph GIFAP No 17
21	Pourability and effectiveness of cleaning procedures	Own method
22	Appearance of tested material	Own method based on Crop Life International Technical Monograph No. 17 and Guidance document for the generation of data on the physical, chemical and technical properties of plant protection products under regulation (EC) no. 1107/2009 of the EU Parliament and Council on placing plant protection products on the market
23	Determination of particle size distribution	CIPAC MT 187 ISO 13320-1:1999
24	Determination of the spontaneity dispersion of suspension concentrates	CIPAC MT 160 i CIPAC MT 174
25	Determination of granular product dust content	CIPAC MT 171 Guidance document for the generation of data on the

		physical, chemical and technical properties of plant protection products under regulation (EC) no. 1107/2009 of the EU Parliament and Council on placing plant protection products on the market, 34
26	Determination of seed to seed uniformity of distribution for liquid seed-treatment formulations	CIPAC MT 175 Guidance document for the generation of data on the physical, chemical and technical properties of plant protection products under regulation (EC) no. 1107/2009 of the EU Parliament and Council on placing plant protection products on the market, 40
27	Determination of flowability of granules	CIPAC MT 172
28	Determination of attrition resistance of dispersible granules	CIPAC MT 178.2
29	Determination of aerosol discharge rate	Method based on Guidance document for the generation of data on the physical, chemical and technical properties of plant protection products under regulation (EC) no. 1107/2009 of the EU Parliament and Council on placing plant protection products on the market and Technical Monograph No. 17
30	Determination of spray diameter	Method based on Guidance document for the generation of data on the physical, chemical and technical properties of plant protection products under regulation (EC) no. 1107/2009 of the EU Parliament and Council on placing plant protection products on the market and Technical Monograph No. 17
31	Evaluation of physical compatibility of pesticides	ASTM E1518-5
32	Determination of adhesion to treated seeds	CIPAC MT 194
33	Determination of surface tension	OECD 115 EEC A.5
34	Determination of water solubility: flask method	OECD 105 EEC A6
35	Determination of solubility in organic solvents: flask method	OECD 105 EEC A.6

36	Determination of partition coefficient n-octanol/water - Shake flask method	OECD 107 EEC A.8
37	Hydrolysis as a function of pH	OECD 111 EEC C.7
38	Determination of dissociation constants in water	OECD 112
39	Determination of freezing temperature	PN ISO 1392 OECD 102
40	Determination of melting point using capillary tube in a metal block method	OECD 102 EEC A.1
41	Determination of boiling point using capillary tube in a metal block method	OECD 103 EEC A.2
42	Determination of partition coefficient n-octanol/water - Slow-stirring method	OECD 123
43	Determination of partition coefficient n-octanol/water - pH-metric method for ionisable substances	OECD 122
44	Phototransformation of chemicals in water – direct photolysis	OECD 316
45	Photodegradation of chemical substances on soil	OPPTS 835.2410
46	Determination of dry matter and water content on a mass basis	PN-ISO 11465
47	Ready biodegradability (DOC Die-away)	OECD Nr 301A
48	Ready biodegradability (MITI)	OECD Nr 301C
49	Ready biodegradability (Closed bottle)	OECD Nr 301D/EU C.4-E
50	Ready biodegradability (Modified OECD screening)	OECD Nr 301E
51	Ready biodegradability (Manometric respirometry)	OECD Nr 301F/EU C.4-D
52	Inherent Biodegradability: Zahn-Wellens/ EVPA Test	OECD Nr 302B/EU C.9
53	Water quality - Evaluation of ultimate aerobic biodegradability of organic compounds in aqueous medium - - Method by analysis of inorganic carbon in sealed vessels (CO ₂ headspace test)	ISO 14593
54	Activated sludge, Respiration Inhibition Test	OECD Nr 209/EU C.11
55	Aerobic and Anaerobic Transformation in Soil	OECD Nr 307/EU C.23
56	Aerobic Mineralisation in Surface Water – Simulation Biodegradation Test	OECD 309
57	Water quality - Determination of the inhibitory effect of water samples on the light emission of <i>Vibrio fischeri</i> (Luminescent bacteria test)	PN-EN ISO 11348-3
58	Simulation Test - Aerobic Sewage Treatment: Activated Sludge Units	OECD 303
59	Anaerobic Biodegradability of Organic Compounds in Digested Sludge: by Measurement of Gas Production	OECD 311
60	Determination of the Inhibition of the Activity of Anaerobic Bacteria - Reduction of Gas Production from Anaerobically Digesting (sewage) Sludge	OECD 224
61	Determination of the ultimate aerobic biodegradability of plastic materials in an aqueous medium - Method by measuring the oxygen demand in a closed respirometer	PN-EN ISO 14851
62	Determination of Total carbon (TC), Inorganic carbon (IC) and Organic carbon (TOC)	
63	Determination of Chemical Oxygen Demand (COD)	
64	Determination of nitrate concentration	

65	Determination of nitrite concentration	
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