

**Elenco delle Caratterizzazioni Chimico-Fisiche e dei Metodi**

<b>Method / guideline</b>	<b>Analysis/ determination</b>
CC/001/ccq (internal)	Appearance (physical state, colour and odour)
ASTM E 1518-99	Determination of Physical compatibility of mixtures
ASTM E 1518-99	Determination of Chemical compatibility of mixtures
PSD: Efficacy Guidelines 302 and 305	Effectiveness of cleaning procedures
SANCO 3030/99 rev. 5	Validation of an analytical method for determination of the active ingredient content in both technical materials and formulated products
SANCO 3030/99 rev. 5	Validation of an analytical method for determination of the impurities in both technical materials and formulated products
SANCO 3030/99 rev. 5	Five batch analysis: charge profile of all substances > 1 g/kg
EC A.1./OECD 102/ CIPAC MT 2	Melting point
EC A.2./OECD 103	Boiling point
EC A.3./OECD 109 / CIPAC MT 3	Density, Relative Density
EC A.5./OECD 115	Surface tension
EC A.6./OECD 105 /CIPAC MT157	Water solubility
Test methods according to section 2.2.4.1, of annex I, Part 2 of Regulation (EC) No 1272/2008 ISO1523 / ISO3679	Flash point
EC A.10.	Flammability of solids
Manual of Tests and Criteria ST/SG/AC.10/11/Rev. 7 – N.1	Flammability of solids
EC A.17.	Oxidising properties (solids)
CIPAC MT 17	Loss in weight
CIPAC MT 27	Material insoluble in acetone
CIPAC MT 29	Sulphated ash
EC A.8./OECD 107 e 117	Partition coefficient
OECD 111	Hydrolysis
OECD 112	Dissociation constant
OECD 101	UV/VIS Spectrum
OECD 114	Kinematic and dynamic Viscosity CIPAC MT 22
	Viscosity of liquids by rotational viscometry CIPAC MT 192
OECD 121	Estimation of the Adsorption Coefficient (KOC) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC)
CIPAC MT 184.1	Suspensibility of formulations forming suspension on dilution with water
CIPAC MT 30.2	Water: Dean and Stark method

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CIPAC MT 30.5	Water: Karl Fisher method using pyridine free reagent
CIPAC MT 36	Emulsion characteristics of emulsifiable concentrates
CIPAC MT 36.3	Emulsion characteristics and re-emulsion properties
CIPAC MT 39	Stability of liquid formulation at 0°C
CIPAC MT 39.3	Low temperature Stability of liquid formulations
CIPAC MT 41	Dilution stability of herbicide aqueous solutions
CIPAC MT 41.1	Dilution stability of aqueous solutions
CIPAC MT 46.3	Accelerated storage procedure
CIPAC MT 47.3	Persistent foam
CIPAC MT 53.3	Wettability (wetting of wettable powders)
CIPAC MT 75.3	pH (1% dispersion)
CIPAC MT 148.1	Pourability of suspension concentrates
CIPAC MT 160	Spontaneity of dispersion of suspension concentrated
CIPAC MT 170	Dry Sieve analysis of water dispersible granules
CIPAC MT 171	Dustiness of granular products
CIPAC MT 172.1	Flowability of granular preparation after accelerated storage under pressure
CIPAC MT 174	Dispersibility of water dispersible granules
CIPAC MT 176	Dissolution rate of water-soluble bags
CIPAC MT 178	Attrition resistance of granules
CIPAC MT 178.2	Attrition resistance of dispersible granules
CIPAC MT 179.1	Degree of dissolution and solution stability
CIPAC MT 180	Dispersion stability of suspo-emulsion
CIPAC MT 181	Solubility in organic solvents
CIPAC MT 185	Wet sieve test
CIPAC MT 186	Bulk (pour and tap) density
CIPAC MT 191	Acidity or alkalinity
CropLife International Technical Monography n° 17	Shelf life
Internal validated method	Active ingredient determination for analysis certificate emission
Council Directive 75/324/EEC and successive amendments	Flammability of aerosol dispenser
FEA method 644	Spray diameter and pattern of aerosol dispenser
FEA 604, 09/2007 Part 2	Internal pressure of aerosol dispenser
ISO/IEC 80079-20-1:2017 – Explosive atmospheres – Part 20-1: Material characteristic for gas and vapour	Auto-ignition Temperature for liquids

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classification – Test method and data	
CIPAC MT 187 / ISO 13320:2020 / OECD 110	Particle size distribution
Manual of test and Criteria Manual of test and Criteria of the Transport of Dangerous Goods of United nations- C.1	Corrosion Characteristics
Manual of Tests and Criteria ST/SG/AC.10/11/Rev. 8 – Part II, Appendix 6, Section 3	Explosive Properties (waiver by DSC)
EC Method A.21	Oxidising properties Liquid
Manual of Tests and Criteria ST/SG/AC.10/11/Rev. 7- O.1	Oxidizing properties of solids
Manual of Tests and Criteria ST/SG/AC.10/11/Rev. 7 -O.2	Oxidising properties Liquid
EC A.16	Auto-Ignition Temperature for Solids
Test N.4	Auto-Ignition Temperature for Solids
EC A.4./OECD 104	Vapour pressure by Knudsen cell method
EC A.4./OECD 104	Vapour pressure
ASTM D4359-90	Determining Whether a Material Is a Liquid or a Solid (Determination of the physical state of a gel)
OECD 442 C	Assesment of Skin sensitization potential of chemicals through their reactivity with synthetic peptides.
ASTM D2109/B	Standard Test Method for Nonvolatile Matter in Halogenated Organic Solven
Transport of Dangerous Goods, Manual of Tests and Criteria ST/SG/AC.10/11/Rev. 8, Part III, Section 31.4	Ignition distance test for spray aerosols
WHO guideline 8.11.4.5	Nozzle blockage, Valve clogging
CIPAC MT 193	Attrition resistance of tablets
FEA method 643	Discharge rate/average amount of spray delivered