

Handbook J

Page	CIPAC No.	Active	Formulations	Extraction	Filtration	Technique	Column	Column type	Mobile Phase	I.S.	Fit for purpose	Comments
4	90	Amitrole	TC/WP/SL/SC	ACN	0.45 µm	HPLC-UV	LiChrospher 100 Diol	Normal phase	ACN/HN4CH3CO2	None	✓	I miss susceptibility method for WP and SC (point 4)
14	386	Bitertanol	TC/WP/DC/SC	DMA	no	capGC-FID	SE 54	RP	n/a	Di(2-ethylhexyl)phthalate (DIOP)	✓	capillary column instead of reversed phase
22	419	Cymoxanil	TC/WP/WG	ACN/H+	0.45 mm	HPLC-UV	RP C8	RP	ACN/H ₂ O : 25:75	Acetophenone	✓	is I.S. necessary?
29	600	Cyproconazole	TC/SL/EC/WG/SC	MeOH	yes	HPLC-UV	RP C18 Zorbax	RP	H ₂ O/ACN/MeOH	None	✓	
37	146	Dazomet	TC/GR	ACN	no	HPLC-UV	RP Nucleosil 100	RP	ACN/H ₂ O/CH ₃ COOH	None	✓	
43	233	Ethofumesate	TC/EC/SC	MeOH	no	HPLC-UV	Phenomenex Prodigy ODS-3	RP	H ₂ O/ACN/THF-Citric Acid	Ethyl benzoate	✓	is I.S. necessary?
51	484	Fenoxaprop-P-ethyl -enantiomeric purity	TC/EW	Dioxane Isooctane Propan-2-ol	0.45 µm 0.45 µm	HPLC-UV HPLC-UV	Silica Nucleosil Chiral	Normal phase Chiral	Isooctane/Dioxane/Water Isooctane/Propan-2-ol/TFA	None None	✓ ✓	
60	581	Fipronil	TC/EC/UL	Propan-2-ol	no	HPLC-UV	Nucleosil S18	RP	H ₂ O/ACN	None	✓	
66	384	Fosetyl-Aluminium	TC/WP/WG	Water	0.2 µm	HPLC conductivity	Star-ion A300	Anion exchange	NaHCO ₃ /NaCO ₃ /H ₂ O	None	✓	
71	374	Hexazinone	TC/WG/SP/SG/SL	ACN	0.2 µm	HPLC-UV	Zorbax SB-C8	RP	H ₂ O/ACN/H+	Benzanilide	✓	page 72 I.S. amount of I.S. (9.0g) is wrong, correct to 3,0g (according to method in collaborative trial)/is I.S. necessary?
78	440	Mepiquat Chloride	TK/SG/SL	Water	no	HPLC conductivity	Zorbax SCX	Cation exchange	Acetone/H ₂ O/Oxalic Acid	None	✓	
84	599	Niclosamide	TC/EC/WP	MeOH	no	HPLC-UV	Waters Symmetry C8	RP	MeOH/H ₂ O/Phosphoric Acid	None	✓	
92	77	Phenmedipham	TC/EC								✓	
94	583	Pyridaben	TC/WP/SC	ACN	0.45 µm	HPLC-UV	Nucleosil C8	RP	ACN/H ₂ O	Laurophenone	✓	page 95 amount of I.S. (300mg) is wrong, correct to 3000mg (see errata). I.S. necessary?
101	563	Quinmerac	TC/WP/SC	THF	no	HPLC-UV	Nucleosil 120 C8	RP	ACN/H ₂ O/H ₂ SO ₄	None	✓	change sulphuric acid to phosphoric acid
108	610	Sulfometuron-methyl	TC/WG	ACN	0.2 µm	HPLC-UV	YMC ODS-AQ	RP	ACN/H ₂ O/H+	Benzanilide	✓	
114	548	Triflumuron	TC/WP/SC	THF/ACN	no	HPLC-UV	LiChrospher 100 RP18	RP	ACN/H ₂ O	None	✓	

Miscellaneous Techniques

Page	Comments
120 MT30 Water	page 122, (i) Use of the water as calibration substance. It is better to determine the concentration either with Water Standard 10,0 or di-sodium tartrate. Using pure water requires a good deal of practice and precise working to obtain accurate results due to very small amount of sample.
126 MT 39.3 Low temperature stability of liquid formulations	page 127 Note 6 ...carry out a wet sieving test according to MT 185 (instead of test MT 59)...
128 MT 46.3 Accelerated storage procedure	
131 MT 75.3 Determination of pH values	page 131 REAGENT there are mentioned only two types of buffers. It is good to add information like this: commercially available buffer solutions e.g. pH 2,00 , 4,01 , 7,00 , 10,01 are preferable. page 131 APPARATUS pH meter with automatic system for determination of stable pH value. page 131 APPARATUS Electrode system use special electrode for emulsions and suspensions available on the market. page 132 Note 1Borax very easy lost the water of crystallization and therefore must be used fresh or crystallized from water.
133 MT 148.1 Pourability of suspension concentrates	
135 MT 182 Wet sieving using recycled water	
138 MT 183 The use of the agrochemical emulsion tester for the determination of the stability of dilute emulsions	