

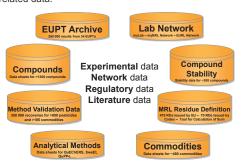
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EURL-SRN

to Access Pesticide-Related Information

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Several sources of pesticide-related information already exist in literature and the internet. However, this information is dispersed among countless sources. In 2007 the EURLs for Pesticides Residues introduced the EURL-DataPool website with the aim to provide analysts with a convenient and efficient access to information needed for proper decision-making in pesticide residue analysis as well as to strengthen the network between EURLs, the NRLs and the official control laboratories. The EURL-DataPool consists of several databases (DBs) and allows the systematic collection and online retrieval of pesticiderelated data:



Compound DB

The Compound DB contains pesticide data sheets which enable an easy access to information about the physicochemical and toxicological properties of pesticides as well as their analytical behavior during extraction, chromatography and detection:



MRL Residue Definitions DB

The MRL Residue Definitions DB was introduced containing the residue definitions (RDs) published by EU and Codex Alimentarius as well as the conversion factors in order to allow the calculation of the respective sum of components as stated in the RD. Having all RDs at a glance is convenient for the user and time-saving.

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	RD issued 🕝	Commodity Gr 🐨	Pesticides Residue Definition	⊙	Remark	•	Last Update of Data		
EU Commission AO			Aldicarb (sum of aldicarb, its sulfoxide and its sulfone, expressed as aldicarb)			io 310/2011; from: 21/10/2011	12/05/2014		
	EU Commission Cereals		Addicarb (sum of addicarb, its sulfoside and its sulfone, expressed as addicarb)			io 310/2011; from: 21/10/2011	12/05/2014		
	Residue Definitio								
	Calculate resi								
	Compound		Conversion Factor	Enter your findings in mg/kg Partial resu		Partial result in mg(kg	result in mg(kg		
	Aldicarb Aldicarb-Sulfon Aldicarb-Sulfon				0.5		0.5		
			0.86	0.1 0.06			0.086		
			0.92						

EUPT Archive DB

The EUPT-Archive DB was constructed to archive the results of EU Proficiency Tests (EUPTs) in order to evaluate the overall performance of laboratories and countries throughout EUPTs and/or years. The access of the laboratories to their EUPT-data via the myLab-site allows them to conveniently evaluate and demonstrate their long-term performance e.g., during audits.



Lab Network DB

The access-restricted Laboratory Network DB was designed to gather important information of all Network laboratories (e.g., official contact information, scope) in order to simplify the communication.

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Method Validation DB / Compound Stability DB

With method validation and standard stability experiments being compulsory for accreditation purposes, numerous experiments are being performed by various laboratories to evaluate analytical procedures. Due to high costs and lots of labor involved, many laboratories are unable to conduct these experiments at the degree required.

The Method Validation DB has been developed to collect validation data produced in intra- and inter-laboratory validation experiments and help labs identify the capability of analytical methods and their deficiencies:

Pesticide	Chr	Matrix Type	Level min	Level max	Rec Median	Rec Mean	CA [#1]	# of rec	% Rec (70-120%)	# of Labs
2,4-D			0,002	1	96	95	14,4	1295	92	- 11
	LC		0,02	0,02		91		- 1	100	1
	LC	Acidic	0,002	1	96	94	14,7	385	92	10
	LC	Dry (cereals, dry pulses)	0,01	0,1	94	93	9,7	113	99	
	LC	Dry (spices, herbs, tea)	0,1	0,125	82	83	19,6	s	80	2
	LC	Fatty (oils)	0,02	0,02		101		- 1	100	- 1
	LC	Fatty, dry (oil seeds, nuts)	0,02	0,1	85	85	1,9	s	100	2
	LC	Fatty, wet (oilly fruits)	0,04	0,05	101	90	22,4	3	67	3
	LC	Other	0,02	0,04	85	90	15,9	6	100	3
	LC	Sugar containing	0,01	0,1	97	96	11,7	81	95	6
	LC	Water containing	0.002	0,25	97	95	14,9	682	91	10

The Compound Stability DB aims to store data about the stability of pesticide standards in stock solutions, working solutions and in sample extracts and to help labs to choose proper storage conditions for their standards:

Compound (Compound Group	•	Difference Stored vs. Refe@	Storage Duration (month@	Storage Temp. (C1)	Solvent(s) of Stored Sin 🐨	Acid/Base added to Sin
Diffubenzuron	Diffubenzuron		-14.3	55	-20	Acetonitrile	No acid or base added
Diffubenzuron	Diffubenzuron		5.0	36	-20	Acetonitrile	No acid or base added
Diffubenzuron	Diffubenzuron		4.4	10	-20	Acetonitrile	No acid or base added
Diffubenzuron	Diffubenzuron		-0.1	6	-20	Acetonitrile	No acid or base added
Diffubenzuron	Diffubenzuron		-7.4	55	4	Acetonitrile	No acid or base added
Offlubenzuron	Diffubenzuron		-0.6	36	4	Acetonitrile	No acid or base added
Diffubenzuron	Diffubenzuron		5.4	24	4	Acetonitrile	No acid or base added
Diffubenzuron	Diffubenzuron		45	10	4	Acetonitrile	No acid or base added
Diffubenzuron	Diffubenzuron		0.6	6	4	Aprtonitrile	No acid or base added

The EURL-DataPool already contains a lot of information, but data contribution by its users is highly appreciated.

Special Excel-based sheets were developed for data-submission to Method Validation DB and Compound Stability DB. These can be downloaded at www.eurl-pesticidesdatapool.eu or www.eurl-pesticidesdatapool-test.eu!







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