eurofins | Product Testing

ilac-MRA DANAK TEST Reg.nr. 522

Eurofins Product Testing A/S
Smedeskovvej 38
8464 Galten
Denmark

VOC@eurofins.com
www.eurofins.com/VOC-testing

Cool Grossist Sweden AB
Sormenvägen 42
186 92 Vallentuna
SWEDEN

VOC/SVOC TEST REPORT
ISO 11890-2 / ASTM D6886

22 May 2017

1 Sample Information

Sample name	Akrylfarg (tidl. 109701)
Sample no.	392-2017-00128101
Production date	-
Batch No.	-
Sample reception	11/04/2017

Morten Sielemann
Analytical Chemist

2 Applied Test Methods

2.1 General Test References

Test	Regulation, protocol or standard	Version	Internal SOP	Limit of detection [g/L]	Uncertainty Um¤
Formaldehyde	EPA 8315A	1996	71 M 548400mat	0.003	20%
VOC/SVOC	ISO 11890-2	2013	71 M 546002	1	20%
VOC/SVOC	ASTM D6886	2012	71 M 546002	1	20%

3 Results

3.1 Results Used in Calculation

	Remarks on the test results	Results	Unit
Density	Supplied by the costumer	1.48	g/mL

3.2 Total VOC Content

	CAS No.	Results	Unit
1,2-propanediol	57-55-6	18	g/L
VOC content	-	18	g/L

3.3 Total SVOC Content

	CAS No.	Results	Unit
Texanol	25265-77-4	13	g/L
SVOC content	-	13	g/L

3.4 Formaldehyde Content

	CAS No.	Results	Unit
Formaldehyd content	50-00-0	17	mg/L

4 Appendices

4.1 How to Understand the Results

4.1.1 Acronyms Used in the Report

< Means less than

> Means bigger than

* Not a part of our accreditation

¤ Please see section regarding uncertainty in the Appendices.

1 Analysed by another Eurofins laboratory

4.2 Description of VOC/SVOC Content Test

4.2.1 Testing of VOC and SVOC

Volatile Organic Compounds (VOC) include all organic compounds with an initial boiling point less than or equal to 250 °C measured at standard pressure of 101.3 kPa.
Semi-Volatile Organic Compounds (SVOC) include all organic compounds with an inital boiling point greater than 250 °C and less than 370 °C measured at standard pressure of 101.3 kPa.
The determination is performed in conformity with ISO 11890-2 and the commission decision 2014/312/EU of 28 May 2014 establishing the ecological criteria for the award of the EU Ecolabel for indoor and outdoor paints and varnishes, with its most recent amendments and its most recent User Manual.
Analyses are performed with a slightly polar gas chromatographic column (HP-5). Mass spectrometric detection is used for identification and flame ionization detector is used for quantification. Identified compounds are quantified with their authentic response factors, or with their relative response factors using 1,2-diethoxyethane as internal standard. Remaining unknown peaks are quantified in diethyl adipate equivalents.

4.2.2 Testing of Formaldehyde

An aliquot of the sample was extracted with water and the extract was derivatised with 2,4-dinitrophenylhydrazine (DNPH) and analysed using UHPLC-UV.

4.3 Uncertainty of the Test Method

The relative standard deviation of the overall analysis is 10%. The expanded uncertainty Um equals 2 x RSD. For further information please visit www.eurofins.dk/uncertainty.