Tirmenich



IDEA Hydroperoxide task force

Brussels, December 3rd 2015

A. Chaintreau

Agenda

- > Antitrust statement
 - No discussions of agreements or concerted actions that may restrain competition
- Adoption of the agenda



The members of the IDEA Hydroperoxides TF

Name	Email	Affiliation
Jean-Marie Aubry	jean-marie.aubry@univ-lille1.fr;	U.Lille
Annabelle Besson	annabelle.besson@iff.com	IFF
Anna Börje	aborje@chem.gu.se	U. Gothenburg
Hugues Brevard	hugues.brevard@robertet.com	Robertet
Michael Calandra	michael.calandra@firmenich.com	Firmenich
Alain Chaintreau	alain.chaintreau@firmenich.com	Firmenich
Elise Corbi	elise.corbi@chanel-corp.com	Chanel
André Düsterloh	andre.duesterloh@dsm.com	DSM
Cécile Gonzalez	cgonzalez@ifraorg.org	IDEA Management Team
Elena Gimenez Arnau	egimenez@unistra.fr	U. Strasbourg
Ann-Therese Karlberg	karlberg@chem.gu.se	U. Gothenburg
Hans Leijs	hans.leijs@iff.com	IFF
Clémentine Marteau	clementine.marteau@iff.com	IFF
Andreas Natsch	andreas.natsch@givaudan.com	Givaudan
Ulrika Nilsson	ulrika.nilsson@anchem.su.se	U. Stockholm
Neil Owen	neil.owen@givaudan.com	Givaudan
Christophe Peres	christophe.peres@chanel-corp.com	Chanel
Veronique Rataj	veronique.rataj@univ-lille1.fr	U. Lille
David W. Roberts	d.w.roberts@ljmu.ac.u	U. Liverpool
Matthias Vey	mvey@ifraorg.org	IDEA Management Team

December 2015



Objectives of this meeting

- Synthesizing last results
- > Defining next steps
- > Drawing conclusions for the meeting with the Commission



01

Results

See presentations by:

- M. Calandra
- · A. Natsch
- A. Chaintreau
- Others?



O2 Outlooks & new questions

Achievements

Synthesis of pure standards

√

> Purity measurement



> Quantification method

??

→ Next slide



- > New compound found
 - > Unknown role in allergy
 - Major impact on quantification

Methods: Conclusions & assumptions to check

- > NMR
 - > Exact composition, low sensitivity
- > GC-FID & GC-MS of underivatized ROOHs
 - Unsuitable
- > GC & derivatization
 - > Free ROOH + reversible fraction from the adduct ?
 - > FID → non alcoholic products. No standard needed
- > HPLC
 - > Exact ROOH concentration ?
 - Depends on the dissociation kinetics in mobile phase
 - > But: frequent and major overestimations in LC-MS/MS (ring test)





Methods

- > GC & LC methods to be rechecked taking the amount of adduct into account
 - Requires the dvplt of a quantification method for the adduct
- > Alcoholic perfumery and aqueous cosmetics
 - > Possibly no adduct (can be easily checked)
 - \rightarrow If true \rightarrow PPh₃ reduction applicable
 - → LC-MS if the cause of overestimation is solved
 - →LC-CL applicable



Key points to answer the Workshop's request on the analysis of consumer products





Next steps

- Variability of TPP method in the same consumer products (fine fragrances)
 - Greenpharma will prepare the samples and standards ready to be analyzed (only one batch)

- Some people might want to apply other methods on the same samples.
- > Look at the role of the adduct in more complex samples

Questions on the adduct

- To what extend does it revert into ROOH?
- > Is it stable?
 - Stability differences = f(RCHO, ROOH) ?
 - > Degradation products ?
- > Is it more/less allergenic than the free ROOH?
 - Impact on patch tests
 - > Petrolatum → adduct favored
 - → not representative of perfumes & cosmetics
 - → representative of e.g. massage applications?
 - Impact on fragrances
 - > EtOH or water → adduct disfavored

03 Election

Election of a new Chairman

- > A. Chaintreau
 - > End of December
 - → Retirement from Firmenich
 - → Resignation from my role of Chairman
 - → Corresponding member ?
 - > Still participates in the review by the Commission
 - > Starting from January 15th → Email: firm.alc@sfr.fr
- New Chairman to be elected

Volunteers?





