Alpha MOS

AroChemBase
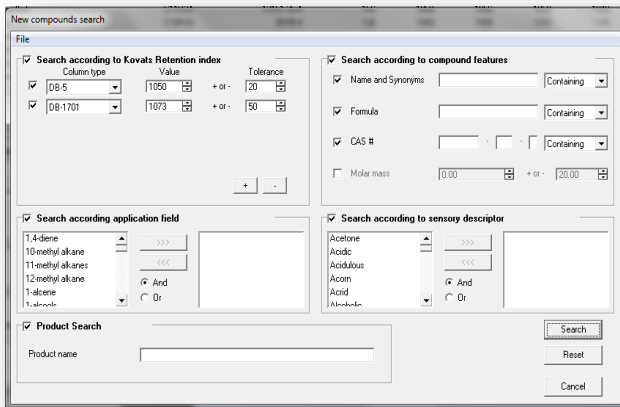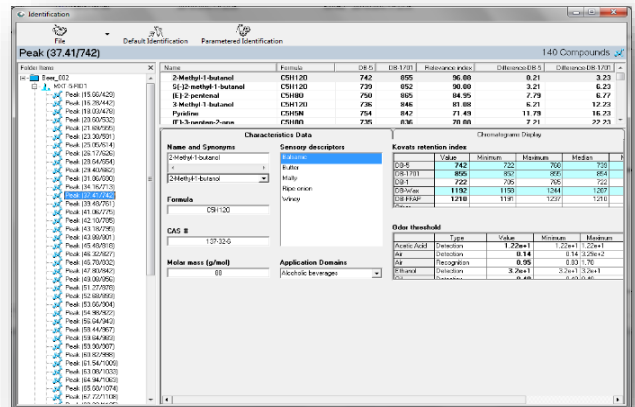## Sensory & Chemical Characterization

AroChemBase

AroChemBase is a library of molecules and related sensory attributes. It is used for **chemical and sensory characterization based on Kovats indices matching in gas chromatography**.

- Helps identify the chemical compounds corresponding to the integrated peaks
- Chemical & sensory data: Name, CAS number, Formula, Synonyms, Retention Index, sensory attribute
- Sorting of chemical compounds candidates thanks to a unique recognition accuracy index
- Ability to enrich the database by including user's data and to extract tailored sub-library
- Numerous search options based on one or several criteria (name, application area, keyword, etc.)
- Compatible with any Gas Chromatograph (aia format)
- 4 types of chromatographic phases : DB-1, DB-5, DB-1701, DB-Wax
- Available in English, French, Spanish, German, Japanese, Chinese, Korean

Example of compounds search window

Display of possible compounds and chemical compound details for a selected peak

Customer applications

- Aroma profiling
- Chemical characterization
- Sensory Benchmarking
- Competitive products or gold standard
- Re-formulation or retro-engineering
- Off-odor identification
  - ✓ Cause of defect
  - ✓ Consumer claim
- Identification of possible causes of change during shelf life

Key Figures

- **99,000+ compounds**
- **3,500+ characterized by more than 550 sensory attributes**
- **1,800+ with human smell detection thresholds**