VIRIDISCHEM

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ViridisChem has built world's largest toxicity database with highly curated data, large repository of experimental data, and sophisticated self-learning deep-learning software platform.

What differentiates our solution from other solutions is:

- World's largest toxicity database (> 90 M chemicals, 2.4 B properties), large amount of experimental data
- Real-time toxicity predictions covering every chemical (even new drug targets),
- Comprehensive toxicological endpoint coverage, ecological, health, safety scores shown in easy-to-understand graphical format
- Accuracy of toxicity predictions based on sophisticated read-across, machine-learning technologies.
- Worldwide regulatory compliance information covering most regulatory lists

ViridisChem Platform

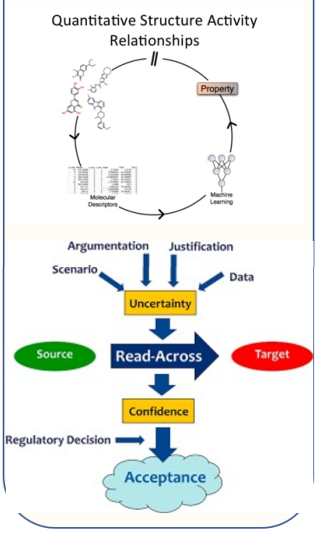
Powerful machine-learning platform offering unique benefits

DATA

- **World's largest toxicity database (>90M chemicals, 2.4B properties)**
- **Largest experimental data**
- **GHS classification, SDS from key companies, global compliance**
- **Secure corporate proprietary data integration**

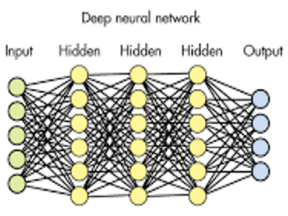
Algorithms

QSAR + Read-across



Platform

Self-learning deep Neural Network



REAL-TIME PREDICTIONS (>85% accuracy)

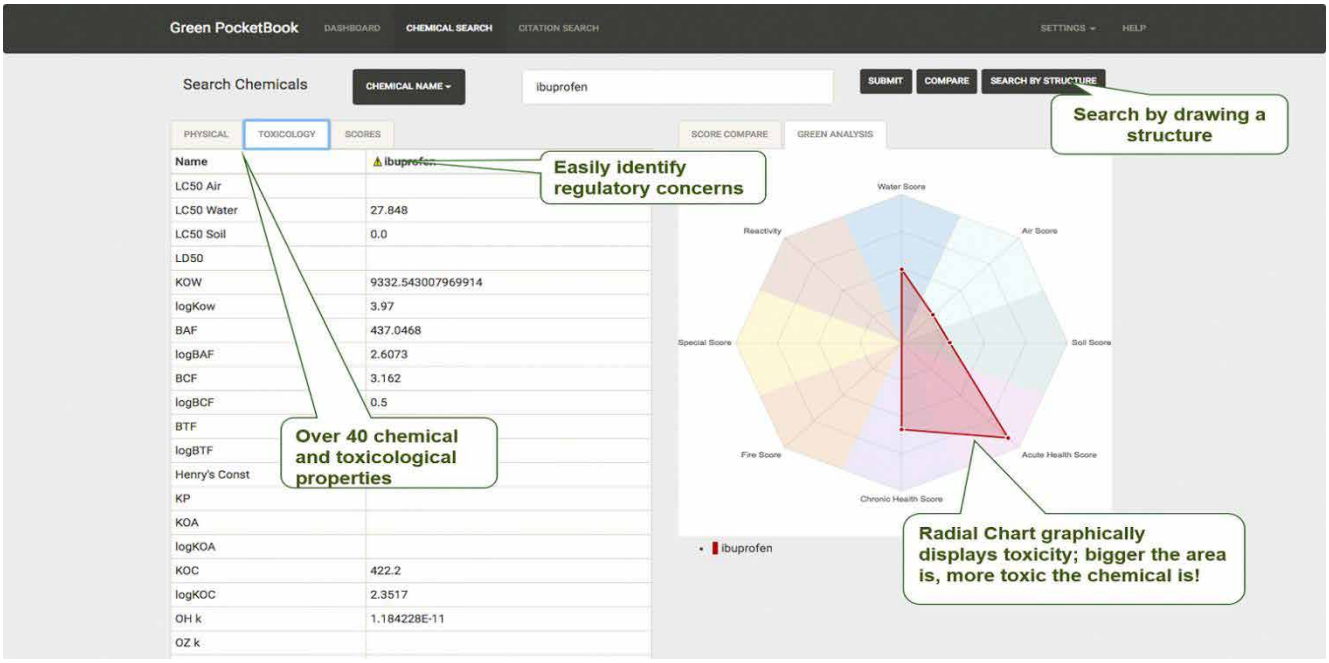
LESS TOXIC ALTERNATIVES

VISUAL RESULTS

NEW R&D INSIGHTS

ViridisChem Product
Chemical Analyzer

Chemical Analyzer is a powerful web-based software offered through yearly subscription. Utilizing ViridisChem's comprehensive experimental data repository and toxicity database, and employing real-time toxicity predictions, it offers full chemical and toxicological information of every chemical, and visually shows chemical's toxicity implications (environmental, health and safety scores) to help non-toxicologists (chemists and engineers) make environmentally-friendly decisions.



Name	ibuprofen
LC50 Air	
LC50 Water	27.848
LC50 Soil	0.0
LD50	
KOW	9332.543007969914
logKow	3.97
BAF	437.0468
logBAF	2.6073
BCF	3.162
logBCF	0.5
BTF	
logBTF	
Henry's Const	
KP	
KOA	
logKOA	
KOC	422.2
logKOC	2.3517
OH k	1.184228E-11
OZ k	

Key Features:

- Real-time toxicity predictions for new drug targets, proprietary chemicals
- Comprehensive endpoint coverage
- Visual depiction of ecological, health and safety scores allowing quick comparison among chemicals
- Multi-criteria advanced search to select less toxic alternatives based on functional groups, chemical classification, property values

Benefits for R&D

- Identify high-risk drug-targets, find less toxic derivatives
- Select less toxic raw material, eliminate toxic waste
- Government compliance, avoid late-stage changes

Benefits for EH&S/SHE

- Tool to help develop/validate MSDS
- Better lab management and preparation for emergencies
- Essential information (GHS, NFPA classification, UN-codes) available digitally

Benefits for Academics

- See the correlation between properties and toxicity scores
- Explore how structural changes affect toxicity scores
- Identify Greener chemicals within functional groups