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VFF | Random Packing Software

With the **new, free VFF Random Packing Software**, calculations can be carried out for all VFF packings for the hydraulics of a packing bed as well as absorption and desorption applications.

With the new version, which **no longer needs to be installed and activated**, VFF tower packings can now be flexibly calculated **online using all devices and operating systems** with Internet access.

The calculation data can be entered as molar, mass-specific or volume-related values.

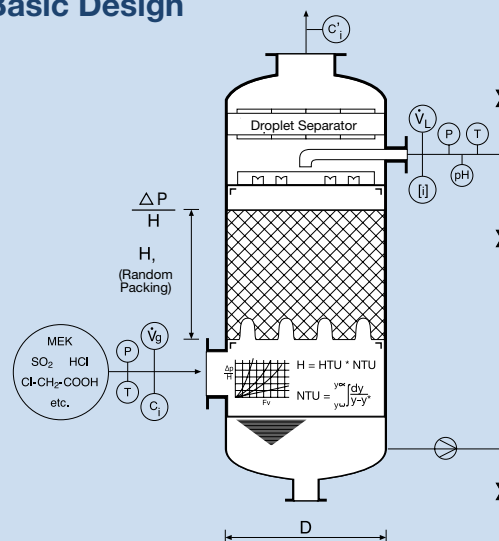
For the calculation of mass transfer, the software offers a database with **approx. 100 different substances**. It contains **all common organic and inorganic substance classes**. As a rule, there are at least 2 substances in each substance class – one representative with a low molecular weight and one with a significantly higher molecular weight. This makes it easy to check the feasibility of absorption or desorption and to make an initial estimate.

If a substance is not included in the list, no time-consuming data search is necessary. The calculation is carried out simply by selecting an appropriate substance class. A substance with a lower and a higher molecular weight is then used in the calculation.

The new VFF packing software offers **intuitive user guidance**.

However, should you have any questions the VFF technical team will be happy to help or carry out the calculations for the customer.

Basic Design



Excerpt from the substance list, sorted by substance classes:

Substance class	Substance name (the software contains several synonyms)	Formula	Empirical formula
Aldehydes (aliphatic, aromatic)	Formaldehyde	H-CHO	CH ₂ O
	Methyl aldehyde	CH ₃ -CHO	C ₂ H ₄ O
	n-Propyl aldehyde	C ₅ H ₁₁ -CHO	C ₆ H ₁₂ O
	Benzaldehyde	C ₆ H ₅ -CHO	C ₇ H ₆ O
	4-Hydroxybenzaldehyde	HO-C ₆ H ₄ -CHO	C ₇ H ₆ O ₂
Alcohols	Methyl alcohol	CH ₃ -OH	CH ₄ O
	Ethyl alcohol	C ₂ H ₅ -OH	C ₂ H ₆ O
	i-Propyl alcohol	C ₃ H ₇ -OH	C ₃ H ₈ O
	n-Octyl alcohol	C ₈ H ₁₇ -OH	C ₈ H ₁₈ O
Amines	Amino methane	CH ₃ -NH ₂	CH ₅ N
	Amino ethane	C ₂ H ₅ -NH ₂	C ₂ H ₇ N
	1-Amino hexane	C ₆ H ₁₃ -NH ₂	C ₆ H ₁₅ N
	Triethylamine	N(C ₂ H ₅) ₃	C ₆ H ₁₅ N
	Pyrrolidine	C ₄ H ₈ N-H	C ₄ H ₉ N
	N-Methyl-Pyrrolidine	C ₄ H ₈ N-CH ₃	C ₅ H ₁₁ N
	Piperidine	C ₅ H ₁₁ N	C ₅ H ₁₁ N
Aromatic compounds, BTX	Benzene	C ₆ H ₆	C ₆ H ₆
	Pyridine	C ₅ H ₅ N	C ₅ H ₅ N
	Tolnene	C ₆ H ₅ -CH ₃	C ₇ H ₈
	o-Xylene	C ₆ H ₄ (CH ₃) ₂	C ₈ H ₁₀
	4-Hydroxytolnene	HO-C ₆ H ₄ -CH ₃	C ₇ H ₈ O
Alkanes	Methane	CH ₄	CH ₄
Epoxides	1,2-Epoxy propane	C ₃ H ₆ O	C ₃ H ₆ O
Esters	Acetic acid-Ethyl ester	CH ₃ -COO-C ₂ H ₅	C ₄ H ₈ O ₂
	n-Butylacetate	CH ₃ -COO-C ₄ H ₉	C ₆ H ₁₂ O ₂
Ethers	Diethyl ether	C ₂ H ₅ -O-C ₂ H ₅	C ₄ H ₁₀ O
	Dioxane	(C ₂ H ₄ O) ₂	C ₄ H ₈ O ₂
Glycols	1,2-Dihydroxy ethane	HO-C ₂ H ₄ -OH	C ₂ H ₆ O ₂
Halogenated hydrocarbons (aliphatic, aromatic; LHKW or similar)	Methyl chloride	CH ₃ -Cl	CH ₃ Cl
	Dichloromethane	CH ₂ Cl ₂	CH ₂ Cl ₂
	Trichloromethane	CHCl ₃	CHCl ₃
	Carbon Tetrachloride	CCl ₄	CCl ₄
	Tribromomethane	CHBr ₃	CHBr ₃

...and lots more substance classes and compounds

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