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Chris Haslego
President
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***Content Based
Chemical Engineering***

MOLECULAR WEIGHT - CHEMICAL PROPERTIES

BASIS: Perry's Chemical Engineering Handbook, 6th Edition

NOTE: Always begin a new case by retrieving the original file. Direct entry of data in cells that originally contain table lookups could cause functions to be lost, or incorrect calculations. I format cells requiring entry colored **RED**; calculated values are black.

WARNING: **Cells G8..H17 contain hidden formulas required for proper operation.**

- 1.) Enter identification at [C4].
- 2.) Enter the chemical symbol (**first letter CAPS, if a second letter NO CAPS**) at [C8..C17].
- 3.) Enter the number of atoms to be included in the calculation at [D8..D17].
- 4.) The element's atomic weight will be looked up and displayed at [E8..E17].
- 5.) The lb/mole will be calculated and shown at [F8..F17].

The combined molecular weight is displayed [F19] and the resulting chemical formula shown at [F21].

Print out using direct Excel commands. This application is provided by Chemical Engineers Resource Website, visit cheresources.com for additional selections.

Print out using direct EXCEL commands.

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Consistent with GOOD ENGINEERING PRACTICE, the burden rests with the USER of these spreadsheets to review ALL calculations, and assumptions. The USER IS FULLY RESPONSIBLE for the results or decisions based on calculations.

This Spreadsheet Requires MACROS to be ENABLED to ASSURE proper operation. See the Workbook Help Sheet for Additional Instructions on Use.

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MOLECULAR WEIGHT - CHEMICAL PROPERTIES

Fluid: Tetra-Fluoroethane (FDP-REFC; HFC-134A)

	Symbol	# Atoms	Atomic Weight	lb/mole
1.)	C	1	12.0110	12.0110
2.)	H	2	1.0080	2.0160
3.)	F	1	18.9984	18.9984
4.)	C	1	12.0110	12.0110
5.)	F	3	18.9984	56.9952
6.)			0.0000	0.0000
7.)			0.0000	0.0000
8.)			0.0000	0.0000
9.)			0.0000	0.0000
10.)			0.0000	0.0000

Molecular Weight = 102.0316

The calculated chemical is CH₂FCF₃