

Atomic Ground State Energies by James Pate Williams, Jr. (c) 2023

Energy Cal = -2.90451
Energy Exp = -2.90339
% Error = 0.03856

Integ1 = 0.000352
Integ2 = 0.000352
Integ3 = -0.006876
Integ4 = -0.006876
Integ5 = 0.000000

Erase Z 2 Alpha 0.61337 Beta 1 Atom Helium Compute

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Energy Cal = -7.47101
Energy Exp = -7.47800
% Error = 0.09342

Integ1 = -0.000001
Integ2 = -0.000001
Integ3 = -0.000001
Integ4 = -2.490336
Integ5 = -2.490336
Integ6 = -2.490336
Integ7 = 0.000000
Integ8 = 0.000000
Integ9 = 0.000000

Erase Z 3 Alpha 0.30585 Beta 1 Atom Lithium Compute

Energy Cal = -14.68271
Energy Exp = -14.66848
% Error = 0.09706

Integ1 = 0.000001
Integ2 = 0.000001
Integ3 = 0.000001
Integ4 = 0.000001
Integ5 = -0.018513
Integ6 = -0.018513
Integ7 = -0.018513
Integ8 = -0.018513
Integ9 = 0.000004
IntegA = 0.000004
IntegB = 0.000004
IntegC = 0.000004
IntegD = 0.000004
IntegE = 0.000004

Erase

Z

4

Alpha

0.21171

Beta

1

Atom

Beryllium

Compute