

# zirconium tetrafluoride

|                             |                             |
|-----------------------------|-----------------------------|
| <b>Other names:</b>         | zirconium(IV) fluoride      |
| <b>Inchi:</b>               | InChI=1S/4FH.Zr/h4*1H;/p-1  |
| <b>InchiKey:</b>            | NLGFRLRLBUOAEJ-UHFFFAOYSA-M |
| <b>Formula:</b>             | F4Zr                        |
| <b>SMILES:</b>              | F.F.F.[F-].[Zr]             |
| <b>Mol. weight [g/mol]:</b> | 167.22                      |
| <b>CAS:</b>                 | 7783-64-4                   |

## Physical Properties

## Temperature Dependent Properties

| Property code | Value    | Unit | Temperature [K] | Source                                    |
|---------------|----------|------|-----------------|---|
| psub          | 8.13e-06 | kPa  | 685.00          | Vapor Pressure of Zirconium Tetrafluoride |
| psub          | 8.13e-06 | kPa  | 689.00          | Vapor Pressure of Zirconium Tetrafluoride |
| psub          | 1.05e-05 | kPa  | 690.00          | Vapor Pressure of Zirconium Tetrafluoride |
| psub          | 1.05e-05 | kPa  | 693.00          | Vapor Pressure of Zirconium Tetrafluoride |
| psub          | 1.62e-05 | kPa  | 693.00          | Vapor Pressure of Zirconium Tetrafluoride |
| psub          | 1.62e-05 | kPa  | 698.50          | Vapor Pressure of Zirconium Tetrafluoride |
| psub          | 1.55e-05 | kPa  | 699.00          | Vapor Pressure of Zirconium Tetrafluoride |
| psub          | 2.40e-05 | kPa  | 699.00          | Vapor Pressure of Zirconium Tetrafluoride |
| psub          | 1.20e-05 | kPa  | 704.00          | Vapor Pressure of Zirconium Tetrafluoride |

|      |          |     |        |   |
|------|----------|-----|--------|---|
| psub | 3.24e-05 | kPa | 705.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 2.40e-05 | kPa | 706.50 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 3.09e-05 | kPa | 707.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 3.09e-05 | kPa | 709.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 2.82e-05 | kPa | 709.50 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 4.90e-05 | kPa | 711.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 1.62e-05 | kPa | 711.50 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 2.40e-05 | kPa | 712.50 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 4.17e-05 | kPa | 713.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 3.24e-05 | kPa | 713.50 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 2.04e-05 | kPa | 715.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 6.46e-05 | kPa | 717.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 2.40e-05 | kPa | 717.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 3.63e-05 | kPa | 719.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 4.90e-05 | kPa | 720.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 3.47e-05 | kPa | 720.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 2.82e-05 | kPa | 720.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 5.25e-05 | kPa | 720.50 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 3.24e-05 | kPa | 721.00 | Vapor Pressure of Zirconium Tetrafluoride |

|      |          |     |        |   |
|------|----------|-----|--------|---|
| psub | 4.90e-05 | kPa | 723.50 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 6.46e-05 | kPa | 724.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 4.68e-05 | kPa | 724.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 4.68e-05 | kPa | 724.50 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 4.07e-05 | kPa | 725.50 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 3.63e-05 | kPa | 725.50 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 4.07e-05 | kPa | 726.50 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 9.33e-05 | kPa | 728.50 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 1.12e-04 | kPa | 728.50 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 6.46e-05 | kPa | 729.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 8.91e-05 | kPa | 729.50 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 8.32e-05 | kPa | 730.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 6.92e-05 | kPa | 730.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 5.62e-05 | kPa | 731.50 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 4.90e-05 | kPa | 731.50 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 6.92e-05 | kPa | 732.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 5.62e-05 | kPa | 732.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 1.12e-04 | kPa | 734.50 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 8.91e-05 | kPa | 735.00 | Vapor Pressure of Zirconium Tetrafluoride |

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|------|----------|-----|--------|---|
| psub | 1.62e-04 | kPa | 735.50 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 1.20e-04 | kPa | 736.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 9.33e-05 | kPa | 736.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 1.17e-04 | kPa | 737.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 8.13e-05 | kPa | 737.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 6.46e-05 | kPa | 737.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 1.45e-04 | kPa | 737.50 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 7.24e-05 | kPa | 737.50 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 1.35e-04 | kPa | 739.50 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 1.55e-04 | kPa | 740.50 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 9.33e-05 | kPa | 740.50 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 1.12e-04 | kPa | 741.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 2.19e-04 | kPa | 742.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 1.41e-04 | kPa | 743.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 1.05e-04 | kPa | 743.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 8.91e-05 | kPa | 743.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 1.62e-04 | kPa | 743.50 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 9.77e-05 | kPa | 743.50 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 2.24e-04 | kPa | 746.50 | Vapor Pressure of Zirconium Tetrafluoride |

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|------|----------|-----|--------|---|
| psub | 2.09e-04 | kPa | 746.50 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 2.04e-04 | kPa | 746.50 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 1.62e-04 | kPa | 748.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 2.82e-04 | kPa | 748.50 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 1.20e-04 | kPa | 748.50 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 1.51e-04 | kPa | 749.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 1.29e-04 | kPa | 749.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 1.45e-04 | kPa | 750.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 2.09e-04 | kPa | 750.50 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 2.40e-04 | kPa | 751.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 2.51e-04 | kPa | 751.50 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 2.09e-04 | kPa | 753.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 1.58e-04 | kPa | 753.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 3.24e-04 | kPa | 754.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 2.09e-04 | kPa | 754.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 3.72e-04 | kPa | 754.50 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 1.70e-04 | kPa | 754.50 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 1.78e-04 | kPa | 755.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 2.88e-04 | kPa | 756.00 | Vapor Pressure of Zirconium Tetrafluoride |

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|------|----------|-----|--------|---|
| psub | 4.17e-04 | kPa | 756.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 3.02e-04 | kPa | 756.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 3.02e-04 | kPa | 756.50 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 3.02e-04 | kPa | 757.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 2.51e-04 | kPa | 757.50 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 1.95e-04 | kPa | 758.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 2.57e-04 | kPa | 759.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 2.34e-04 | kPa | 760.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 2.19e-04 | kPa | 760.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 3.63e-04 | kPa | 760.50 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 4.07e-04 | kPa | 763.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 5.50e-04 | kPa | 763.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 5.13e-04 | kPa | 763.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 3.16e-04 | kPa | 763.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 2.34e-04 | kPa | 764.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 3.47e-04 | kPa | 765.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 3.02e-04 | kPa | 765.50 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 5.01e-04 | kPa | 766.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 6.03e-04 | kPa | 766.00 | Vapor Pressure of Zirconium Tetrafluoride |

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|------|----------|-----|--------|---|
| psub | 4.68e-04 | kPa | 766.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 3.72e-04 | kPa | 766.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 2.82e-04 | kPa | 766.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 4.57e-04 | kPa | 766.50 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 7.41e-04 | kPa | 769.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 4.37e-04 | kPa | 769.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 4.47e-04 | kPa | 770.50 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 3.63e-04 | kPa | 771.50 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 5.37e-04 | kPa | 772.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 4.07e-04 | kPa | 772.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 4.17e-04 | kPa | 773.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 8.91e-04 | kPa | 774.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 4.27e-04 | kPa | 774.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 6.46e-04 | kPa | 775.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 6.03e-04 | kPa | 777.50 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 5.25e-04 | kPa | 778.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 5.01e-04 | kPa | 778.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 7.24e-04 | kPa | 779.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 5.50e-04 | kPa | 781.00 | Vapor Pressure of Zirconium Tetrafluoride |

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|------|----------|-----|--------|---|
| psub | 6.46e-04 | kPa | 783.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 9.33e-04 | kPa | 783.50 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 8.13e-04 | kPa | 784.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 6.46e-04 | kPa | 785.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 1.00e-03 | kPa | 786.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 1.45e-03 | kPa | 788.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 8.13e-04 | kPa | 789.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 1.02e-03 | kPa | 789.50 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 9.77e-04 | kPa | 791.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 1.29e-03 | kPa | 792.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 1.29e-03 | kPa | 793.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 1.05e-03 | kPa | 794.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 1.48e-03 | kPa | 798.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 1.23e-03 | kPa | 798.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 1.26e-03 | kPa | 798.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 2.34e-03 | kPa | 799.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 1.86e-03 | kPa | 801.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 1.70e-03 | kPa | 801.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 1.55e-03 | kPa | 802.00 | Vapor Pressure of Zirconium Tetrafluoride |



|      |          |     |        |   |
|------|----------|-----|--------|---|
| psub | 1.66e-03 | kPa | 803.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 1.86e-03 | kPa | 803.50 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 2.09e-03 | kPa | 807.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 2.95e-03 | kPa | 808.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 2.40e-03 | kPa | 810.50 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 2.75e-03 | kPa | 811.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 2.09e-03 | kPa | 811.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 2.95e-03 | kPa | 815.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 3.89e-03 | kPa | 818.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 3.80e-03 | kPa | 821.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 6.17e-03 | kPa | 823.00 | Vapor Pressure of Zirconium Tetrafluoride |
| psub | 5.62e-03 | kPa | 828.00 | Vapor Pressure of Zirconium Tetrafluoride |

## Sources

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C7783644&Units=SI>

Vapor Pressure of Zirconium Tetrafluoride :

<https://www.doi.org/10.1021/je100972k>

## Legend

**psub:** Sublimation pressure

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