

Bis(«pi»-cyclopentadienyl)vanadium

Other names: Vanadium, bis(«eta»
Inchi: InChI=1S/2C5H5.V/c2*1-2-4-5-3-1;/h2*1-5H;
InchiKey: GLOUOHCQKJMDFZ-UHFFFAOYSA-N
Formula: C10H10V
SMILES: C12C3C4C5C1[V]23451678C2C1C6C7C28
Mol. weight [g/mol]: 181.13
CAS: 1277-47-0

Physical Properties

| Property code | Value | Unit | Source |
|---------------|-----------------|---------|--------------|
| chs | -6284.40 ± 8.40 | kJ/mol | NIST Webbook |
| hf | 203.30 ± 9.80 | kJ/mol | NIST Webbook |
| hf | 181.60 ± 5.80 | kJ/mol | NIST Webbook |
| hfs | 123.00 ± 4.00 | kJ/mol | NIST Webbook |
| hfs | 144.70 ± 8.90 | kJ/mol | NIST Webbook |
| hsub | 58.60 ± 4.20 | kJ/mol | NIST Webbook |
| hsub | 58.60 ± 4.20 | kJ/mol | NIST Webbook |
| ie | 6.78 | eV | NIST Webbook |
| ie | 6.81 | eV | NIST Webbook |
| ie | 6.75 | eV | NIST Webbook |
| ie | 6.70 | eV | NIST Webbook |
| ie | 7.30 ± 0.10 | eV | NIST Webbook |
| ss | 240.20 | J/molxK | NIST Webbook |
| ss | 240.20 | J/molxK | NIST Webbook |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|--------------|
| cps | 203.30 | J/molxK | 298.00 | NIST Webbook |
| cps | 204.60 | J/molxK | 298.15 | NIST Webbook |
| cps | 204.30 | J/molxK | 298.15 | NIST Webbook |
| hsubt | 57.40 | kJ/mol | 330.50 | NIST Webbook |

Sources

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C1277470&Units=SI>

Legend

| | |
|---------------|--|
| chs: | Standard solid enthalpy of combustion |
| cps: | Solid phase heat capacity |
| hf: | Enthalpy of formation at standard conditions |
| hfs: | Solid phase enthalpy of formation at standard conditions |
| hsub: | Enthalpy of sublimation at standard conditions |
| hsubt: | Enthalpy of sublimation at a given temperature |
| ie: | Ionization energy |
| ss: | Solid phase molar entropy at standard conditions |

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