

# diethylzinc

**Inchi:** InChI=1S/2C2H5.Zn/c2\*1-2;/h2\*1H2,2H3;  
**InchiKey:** HQWPLXHWZZGKY-UHFFFAOYSA-N  
**Formula:** C4H10Zn  
**SMILES:** CC[Zn]CC  
**Mol. weight [g/mol]:** 123.50  
**CAS:** 557-20-0

## Physical Properties

| Property code | Value            | Unit    | Source       |
|---------------|------------------|---------|--------------|
| chl           | -3372.30 ± 2.10  | kJ/mol  | NIST Webbook |
| chl           | -3369.00 ± 13.00 | kJ/mol  | NIST Webbook |
| hf            | 55.10 ± 4.30     | kJ/mol  | NIST Webbook |
| hf            | 57.50 ± 2.20     | kJ/mol  | NIST Webbook |
| hf            | 55.50 ± 3.90     | kJ/mol  | NIST Webbook |
| hf            | 54.00 ± 13.00    | kJ/mol  | NIST Webbook |
| hf            | 62.60 ± 4.60     | kJ/mol  | NIST Webbook |
| hf            | 55.80 ± 6.20     | kJ/mol  | NIST Webbook |
| hfl           | 16.30 ± 4.30     | kJ/mol  | NIST Webbook |
| hfl           | 17.00 ± 6.20     | kJ/mol  | NIST Webbook |
| hfl           | 23.80 ± 4.60     | kJ/mol  | NIST Webbook |
| hfl           | 16.70 ± 3.90     | kJ/mol  | NIST Webbook |
| hfl           | 18.70 ± 2.20     | kJ/mol  | NIST Webbook |
| hfl           | 15.00 ± 13.00    | kJ/mol  | NIST Webbook |
| hvap          | 37.90            | kJ/mol  | NIST Webbook |
| hvap          | 38.80 ± 0.40     | kJ/mol  | NIST Webbook |
| ie            | 8.60             | eV      | NIST Webbook |
| sl            | 276.60           | J/molxK | NIST Webbook |
| sl            | 290.20           | J/molxK | NIST Webbook |
| tt            | 236.98 ± 0.02    | K       | NIST Webbook |
| tt            | 239.80 ± 0.02    | K       | NIST Webbook |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-------|------|-----------------|--------|
|---------------|-------|------|-----------------|--------|

|       |        |         |        |              |
|-------|--------|---------|--------|--------------|
| cpl   | 194.40 | J/mol×K | 298.15 | NIST Webbook |
| cpl   | 188.90 | J/mol×K | 298.15 | NIST Webbook |
| hfust | 18.05  | kJ/mol  | 145.50 | NIST Webbook |
| hfust | 0.28   | kJ/mol  | 148.40 | NIST Webbook |
| hfust | 16.63  | kJ/mol  | 237.00 | NIST Webbook |
| hfust | 18.05  | kJ/mol  | 239.80 | NIST Webbook |
| hvapt | 39.90  | kJ/mol  | 320.50 | NIST Webbook |
| sfust | 75.30  | J/mol×K | 239.80 | NIST Webbook |
| sfust | 1.86   | J/mol×K | 148.40 | NIST Webbook |
| sfust | 70.19  | J/mol×K | 237.00 | NIST Webbook |

## Sources

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C557200&Units=SI>

## Legend

|               |   |
|---------------|---|
| <b>chl:</b>   | Standard liquid enthalpy of combustion                    |
| <b>cpl:</b>   | Liquid phase heat capacity                                |
| <b>hf:</b>    | Enthalpy of formation at standard conditions              |
| <b>hfl:</b>   | Liquid phase enthalpy of formation at standard conditions |
| <b>hfust:</b> | Enthalpy of fusion at a given temperature                 |
| <b>hvap:</b>  | Enthalpy of vaporization at standard conditions           |
| <b>hvapt:</b> | Enthalpy of vaporization at a given temperature           |
| <b>ie:</b>    | Ionization energy   |
| <b>sfust:</b> | Entropy of fusion at a given temperature                  |
| <b>sl:</b>    | Liquid phase molar entropy at standard conditions         |
| <b>tt:</b>    | Triple Point Temperature                                  |

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