

# 1,3-dichloro-1,1,3,3-tetramethyldisiloxane

|                      |                                                 |
|----------------------|-------------------------------------------------|
| Inchi:               | InChI=1S/C4H12Cl2OSi2/c1-8(2,5)7-9(3,4)6/h1-4H3 |
| InchiKey:            | DMEXFOUCEOWRGD-UHFFFAOYSA-N                     |
| Formula:             | C4H12Cl2OSi2                                    |
| SMILES:              | C[Si](C)(Cl)O[Si](C)(C)Cl                       |
| Mol. weight [g/mol]: | 203.22                                          |
| CAS:                 | 2401-73-2                                       |

## Physical Properties

| Property code | Value   | Unit | Source                   |
|---------------|---------|------|--------------------------|
| ie            | 10.53   | eV   | Cheméo Relay (1.0)       |
| logp          | 2.884   |      | Crippen Method           |
| pc            | 2236.37 | kPa  | Cheméo Relay (1.0, beta) |
| tb            | 413.75  | K    | Cheméo Relay (1.0)       |
| tc            | 573.82  | K    | Cheméo Relay (1.0)       |
| tf            | 238.53  | K    | Cheméo Relay (1.0)       |

## Correlations

| Information                 | Value                         |
|-----------------------------|-------------------------------|
| Property code               | pvap                          |
| Equation                    | $\ln(P_{vp}) = A + B/(T + C)$ |
| Coeff. A                    | 1.39361e+01                   |
| Coeff. B                    | -3.19811e+03                  |
| Coeff. C                    | -6.79210e+01                  |
| Temperature range (K), min. | 302.24                        |
| Temperature range (K), max. | 438.73                        |

## Sources

The Yaws Handbook of Vapor  
Pressure:  
Crippen Method:

<https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure>  
<http://pubs.acs.org/doi/abs/10.1021/ci990307l>

**Crippen Method:**

[https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)

**Cheméo Relay (1.0):**

**Cheméo Relay (1.0, beta):**

## Legend

|              |                                     |
|--------------|-------------------------------------|
| <b>ie:</b>   | Ionization energy                   |
| <b>logp:</b> | Octanol/Water partition coefficient |
| <b>pc:</b>   | Critical Pressure                   |
| <b>pvap:</b> | Vapor pressure                      |
| <b>tb:</b>   | Normal Boiling Point Temperature    |
| <b>tc:</b>   | Critical Temperature                |
| <b>tf:</b>   | Normal melting (fusion) point       |

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