

# 7,8-Dihydro-l-biopterin, pentakis(trimethylsilyl) derivative

|                             |                                                                                               |
|-----------------------------|-----------------------------------------------------------------------------------------------|
| <b>Other names:</b>         | 6-Pyrrol(1S,2R)-1,2-bis[(trimethylsilyl)oxy]propylmorpho-1,8-bis(trimethylsilyl)-2-[(trimethy |
| <b>Inchi:</b>               | InChI=1S/C24H53N5O3Si5/c1-18(31-36(11,12)13)21(32-37(14,15)16)19-17-28(34(5,6)7)              |
| <b>InchiKey:</b>            | NMYXGVJRDGSRGA-UHFFFAOYSA-N                                                                   |
| <b>Formula:</b>             | C24H53N5O3Si5                                                                                 |
| <b>SMILES:</b>              | CC(O[Si](C)(C)C)C(O[Si](C)(C)C)C1=Nc2c(n([Si](C)(C)C)c(N[Si](C)(C)C)nc2=O)N([Si](C            |
| <b>Mol. weight [g/mol]:</b> | 600.14                                                                                        |

## Physical Properties

| Property code | Value   | Unit | Source         |
|---------------|---------|------|----------------|
| log10ws       | 5.00    |      | Crippen Method |
| logp          | 6.361   |      | Crippen Method |
| rinpol        | 2411.40 |      | NIST Webbook   |

## Sources

**Crippen Method:** <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)

**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=U333807&Units=SI>

## Legend

|                 |                                     |
|-----------------|-------------------------------------|
| <b>log10ws:</b> | Log10 of Water solubility in mol/l  |
| <b>logp:</b>    | Octanol/Water partition coefficient |
| <b>rinpol:</b>  | Non-polar retention indices         |

Latest version available from:

<https://www.chemeo.com/cid/77-372-4/7-8-Dihydro-l-biopterin-pentakis-trimethylsilyl-derivative.pdf>

Generated by Cheméo on 2025-12-06 04:22:48.235226909 +0000 UTC m=+4743165.765267575.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.