

# Hydrocortisone (cortisol), MO-TMS

|                             |                                                                                                                                                                                                                                                                   |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Other names:</b>         | Bis(methyloxime), tris(trimethylsilyl) derivative of 17«alpha»-Hydroxycorticosterone<br>Cortisol, bis-MO-tris-TMS, syn<br>Methyloxime, trimethylsilyl derivative of Cortisol<br>Pregn-4-ene-3,20-dione, 11«beta»,17,21-tris(trimethylsiloxy)-, bis(O-methyloxime) |
| <b>Inchi:</b>               | InChI=1S/C32H60N2O5Si3/c1-30-18-16-24(33-35-3)20-23(30)14-15-25-26-17-19-32(39-                                                                                                                                                                                   |
| <b>InchiKey:</b>            | PRZGIUIKCGRVGY-MOWCZZONSA-N                                                                                                                                                                                                                                       |
| <b>Formula:</b>             | C32H60N2O5Si3                                                                                                                                                                                                                                                     |
| <b>SMILES:</b>              | CON=C1C=C2CCCC3C(C(O[Si](C)(C)C)CC4(C)C3CCC4(O[Si](C)(C)C)C(CO[Si](C)(C)C)                                                                                                                                                                                        |
| <b>Mol. weight [g/mol]:</b> | 637.09                                                                                                                                                                                                                                                            |

## Physical Properties

| Property code | Value   | Unit | Source         |
|---------------|---------|------|----------------|
| logp          | 8.226   |      | Crippen Method |
| rinpol        | 3290.00 |      | NIST Webbook   |
| rinpol        | 2980.00 |      | NIST Webbook   |

## Sources

Cheméo Relay (1.0, beta):

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C32221264&Units=SI>

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)

Cheméo Relay (1.0):

## Legend

**logp:** Octanol/Water partition coefficient

**rinpol:** Non-polar retention indices

Latest version available from:

<https://www.chemeo.com/cid/76-969-3/Hydrocortisone-cortisol-MO-TMS.pdf>

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