

# Silane, trimethyl-

|                             |  |
|-----------------------------|--|
| <b>Other names:</b>         | Trimethylsilane<br>2-Methyl-2-silapropane<br>(CH <sub>3</sub> ) <sub>3</sub> SiH |
| <b>Inchi:</b>               | InChI=1S/C3H10Si/c1-4(2)3/h4H,1-3H3  |
| <b>InchiKey:</b>            | PQDJYEQOELDLCP-UHFFFAOYSA-N  |
| <b>Formula:</b>             | C <sub>3</sub> H <sub>10</sub> Si  |
| <b>SMILES:</b>              | C[SiH](C)C   |
| <b>Mol. weight [g/mol]:</b> | 74.20  |
| <b>CAS:</b>                 | 993-07-7   |

## Physical Properties

| Property code | Value         | Unit | Source         |
|---------------|---------------|------|----------------|
| ie            | 9.80 ± 0.30   | eV   | NIST Webbook   |
| ie            | 10.80         | eV   | NIST Webbook   |
| ie            | 9.90          | eV   | NIST Webbook   |
| ie            | 10.11         | eV   | NIST Webbook   |
| log10ws       | 1.67          |      | Crippen Method |
| logp          | 1.103         |      | Crippen Method |
| rinpol        | 408.00        |      | NIST Webbook   |
| rinpol        | 377.00        |      | NIST Webbook   |
| tb            | 282.00        | K    | NIST Webbook   |
| tb            | 283.00 ± 4.00 | K    | NIST Webbook   |

## Sources

|                        |   |
|------------------------|---|
| <b>NIST Webbook:</b>   | <a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C993077&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C993077&amp;Units=SI</a> |
| <b>Crippen Method:</b> | <a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>                                 |
| <b>Crippen Method:</b> | <a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>                         |

## Legend

**ie:** Ionization energy  
**log10ws:** Log10 of Water solubility in mol/l  
**logp:** Octanol/Water partition coefficient  
**rinpol:** Non-polar retention indices  
**tb:** Normal Boiling Point Temperature

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