

Silyldiyne

Inchi: InChI=1S/HSi/h1H
InchiKey: QHSGZLLHBKSAH-UHFFFAOYSA-N
Formula: HSi
SMILES: [SiH]
Mol. weight [g/mol]: 29.09
CAS: 13774-94-2

Physical Properties

| Property code | Value | Unit | Source |
|---------------|-------------|------|----------------|
| ea | 1.28 ± 0.01 | eV | NIST Webbook |
| ie | 7.89 ± 0.07 | eV | NIST Webbook |
| ie | 7.91 ± 0.01 | eV | NIST Webbook |
| ie | 8.04 | eV | NIST Webbook |
| ie | 7.91 | eV | NIST Webbook |
| ie | 8.01 ± 0.08 | eV | NIST Webbook |
| ie | 8.27 ± 0.06 | eV | NIST Webbook |
| log10ws | 2.83 | | Crippen Method |
| logp | -0.649 | | Crippen Method |

Sources

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci9903071>
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C13774942&Units=SI>

Legend

ea: Electron affinity
ie: Ionization energy
log10ws: Log10 of Water solubility in mol/l
logp: Octanol/Water partition coefficient

Latest version available from:

<https://www.cheméo.com/cid/21-087-2/Silylidyne.pdf>

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