

Cyclo-hexasilane (CHS, Si₆H₁₂)

CAS number	291-59-8
UN number	UN 3194
Molecular mass	180,61 g/Mol
Appearance	colorless liquid
Melting point	~19 °C

Cyclo-hexasilane

Product Number	1910
Purity	99,999% (by ICP-MS)
Assay	> 95% (by NMR)
Application	Silane chemistry, printable electronics, Si-CVD

Application Note

- liquid precursor for liquid or gas phase deposition of Si and silicides (“printed electronics”)
- low temperature decomposition capability
- silicon nanowires, nanorods for electronic and battery applications
- precursor for solution-based growth methods for Si and silicide nanoparticles and nanowires

Application example from literature (Si₆H₁₂)

Low Temperature Colloidal Synthesis of Silicon Nanorods from Isotetrasilane, Neopentasilane, and Cyclohexasilane

Xiaotang Lu, Kenneth J. Anderson, Philip Boudjouk, and Brian A. Korgel
Chem. Mater., 2015, 27 (17), pp 6053–6058