

Dodecachloro-cyclo-hexasilane (DCCHS, Si₆Cl₁₂)

CAS number	62436-47-9
UN number	UN 3096
Molecular mass	593,88 g/Mol
Appearance	colorless crystals
Melting point	100-103 °C
Boiling point	~120°C/0,1 hPa

Dodecachloro-cyclo-hexasilane

Product Number	1900
Purity	99,999% (by ICP-MS)
Assay	> 95% (by NMR)
Application	Silane chemistry, printable electronics, Si-CVD

Application Note

- base material for production of Si₆H₁₂ and other derivatives
- 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
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