

# Product Data Sheet

# **Coretec Cyclohexasilane™**

# **6x The Silicon For Superior Performance**

# **Product Description**

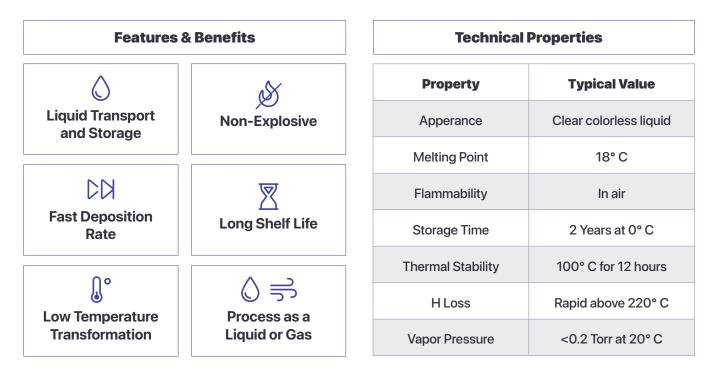
Coretec Cyclohexasilane ( $Si_6H_{12}$ ) is a higher order silane that is transported and stored as a liquid and can be processed as a liquid or gas.

# Applications

Coretec Cyclohexasilane is ideal for applications where purity, safety, fast deposition rate and low-temperature deposition of silicon and/or doped silicon (C, Ge, B, Co and P) are important, such as:

- Li-ion Battery
- Atomic Layer Deposition, PECVD, CVD, and plasma-based processes
- Silicon Quantum Dots
- Solar
- Printed Electronics

Application sell sheets are available upon request.

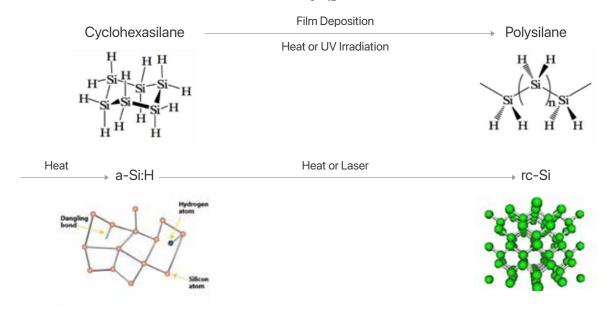


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# Transformation Of Cyclohexasilane ((CHS) $|: Si_6H_{12}$ )



### **Examples of Cyclohexasilane in Applications of Use**

- Solution based synthesis of crystalline silicon from liquid silane through laser and chemical annealing
  (DOI/10.1021/qm300334p)\*
- Aerosol assisted atmospheric pressure chemical vapor deposition silicon thin film (DOI/10.106/j.tdf.2015.05.069)\*
- Low temperature colloidal synthesis of silicon nanorods (DOI/10.1021/acschemmater5b02487)\*
- Synthesis of silicon quantum dots (DOI/10.1039/c6tc01435f)\*
- Silicon nanoscrystals with band gap emission (DOI/10.1021/acsnano.9b09614)\*
   \*publication available upon request

# **Storage and Shelf Life**

Shelf life is two years at 0°C when stored under nitrogen.

#### Safety

Before handling, read the product Material Safety Data Sheet (MSDS), which is available upon request.

# Notice

The information contained herein represents product knowledge at time of publication and is intended to serve as guidance on potential product development only. It is not a guarantee or warranty of product use, safety, or suitability for specific applications.

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