

NS6130-12-001728

CALCIUM HYDRIDE

Quick Facts

Product	:	Calcium Hydride Nanoparticles
Stock No	:	NS6130-12-001728
CAS	:	7789-78-8
Molecular Formula	:	CaH ₂
Form	:	Powder

Purity
99.9%

Technical Specification

Molecular Weight	Density	Melting Point	APS
42.094g/mol	1.70g/cm ³	816°C	80-100nm

Calcium hydride is the chemical compound with the formula CaH₂, and is therefore an alkaline earth hydride. This grey powder reacts vigorously with water liberating hydrogen gas. CaH₂ is thus used as a drying agent, i.e. a desiccant.

CaH₂ is a saline hydride, meaning that its structure is salt-like. The alkali metals and the alkaline earth metals heavier than beryllium all form saline hydrides. A well-known example is sodium hydride, which crystallizes in the NaCl motif. These species are insoluble in all solvents with which they do not react. CaH₂ crystallizes in the PbCl₂ (cotunnite) structure.



CaH₂
APS 80-100nm



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