

BDEAS

Properties: BDEAS is a silicone compound, colorless liquid with a pungent odor. BDEAS is highly reactive and can increase the growth rate of atomic layer deposition at low temperatures. BDEAS has good solubility and can be dissolved in a variety of organic solvents.

Uses: ALD/CVD precursor for silicon-based film deposition.

· Identifier

Chemical Formula	$[(C_2H_5)_2N]_2SiH_2$
CAS No.	27804-64-4
EINECS No.	/

· Physical and chemical properties

Molecular weight	174.36 g/mol	Flash point	>30°C	Reactivity	Highly flammable
Appearance	Colorless liquid	Melting point	< -10°C	Solubility	Insoluble in water Soluble in organic solvent
Density	0.804 g/cm ³	Boiling point	188°C	Storage	Shady and cool, well-ventilated

· Metal impurities

Impurities	Unit	Specification	Impurities	Unit	Specification
Al	ppb	≤30	Li	ppb	≤30
As	ppb	≤30	Mg	ppb	≤30
Ba	ppb	≤30	Mn	ppb	≤30
Be	ppb	≤30	Mo	ppb	≤30
B	ppb	≤30	Ni	ppb	≤30
Cd	ppb	≤30	Nb	ppb	≤30
Ca	ppb	≤30	K	ppb	≤30
Cr	ppb	≤30	Na	ppb	≤30
Co	ppb	≤30	Sb	ppb	≤30
Cu	ppb	≤30	Sn	ppb	≤30
Ga	ppb	≤30	Ti	ppb	≤30
Ge	ppb	≤30	V	ppb	≤30
In	ppb	≤30	Zn	ppb	≤30
Fe	ppb	≤30	Zr	ppb	≤30
Pb	ppb	≤30			

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