



>>Entry Name: Nickel silicide

CAS Registry Number: 39467-10-2

Related CAS Registry Numbers(s): 12059-22-2 12059-27-7 12396-85-9

Molecular Formula: [NiSi]

Source/Synthesis: Synth. from Ni + Si

>>Variant: Nickel silicide (Ni₂Si)

CAS Registry Number: 12059-14-2

Molecular Formula: Ni₂Si

Molecular Weight: 145.465

Accurate Mass: 143.847619

Percentage Composition: Ni 80.69%; Si 19.31%

>>Variant: Nickel silicide (NiSi)

CAS Registry Number: 12035-57-3

Molecular Formula: NiSi

Molecular Weight: 86.775

Accurate Mass: 85.912273

Percentage Composition: Ni 67.63%; Si 32.37%

>>Variant: Nickel silicide (NiSi₂)

CAS Registry Number: 12201-89-7

Molecular Formula: NiSi₂

Molecular Weight: 114.861

Accurate Mass: 113.8892

Percentage Composition: Ni 51.10%; Si 48.90%

Other Data: Many studies of epitaxial growth, especially on Si; semiconductor

References:

Aronsson, B., *Borides, Silicides and Phosphides*, Methuen, 1965

Tang, R.T., *J. Vac. Sci. Technol., A*, 1989, **7**, 598, (*epitaxy*)