



>>Entry Name: Nickel(II) chloride (NiCl₂), 9Cl

Synonym(s): Nickel dichloride

CAS Registry Number: 7718-54-9

Related CAS Registry Numbers(s): 69098-15-3

NiCl₂

Molecular Formula: Cl₂Ni

Molecular Weight: 129.595

Accurate Mass: 127.87305

Percentage Composition: Cl 54.71%; Ni 45.29%

Source/Synthesis: Obt. from Ni + Cl₂ or dehydration of hydrates by SOCl₂

Use/Importance: Starting material for many other Ni compds. Commercially available

Physical Description: Sparkling golden yellow scales

Melting Point: Mp 1001° (sealed tube)

Boiling Point: Subl. 993°

Solubility: Sol. H₂O, polar org. solvs.

Other Data: Metamagnet

Aldrich: 33935-0

Fluka: 72244

>>Derivative: Dihydrate

Source/Synthesis: Obt. from hexahydrate at 80°

Other Data: Chain struct. with 4 pairs of Cl bridging octahedral Ni

>>Derivative: Hexahydrate

Synonym(s): Hexaaquanickel(II) dichloride

CAS Registry Number: 7791-20-0

Molecular Formula: Cl₂H₁₂NiO₆

Molecular Weight: 237.687

Accurate Mass: 235.93644

Percentage Composition: Cl 29.83%; H 5.09%; Ni 24.69%; O 40.39%

Use/Importance: Commercially available

Physical Description: Grass green monoclinic cryst.

Solubility: Sol. H₂O

Other Data: Probably chloride salt of Hexaaquanickel(II)(2+) [JWL44-J](#). Other hydrates are less well characterised

Aldrich: 22338-7

Fluka: 72247

Sigma: N6136

References:

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