

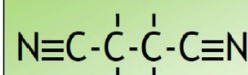
# Stanyl® SN–PURE (Succinonitrile)

## Formula: C<sub>4</sub>H<sub>4</sub>N<sub>2</sub>

Used as electrolyte additive in battery systems

Stanyl® SN–PURE is high–purity Succinonitrile, an electrolyte additive for battery systems that improves overall battery safety and extends service life via the reduction of harmful gas generation. Battery life performance is extended because Stanyl® SN–PURE increases the lifetime of Nickel (Ni), Manganese (Mn) and Cobalt (Co) cathode chemistries.

Structure formula:



Envalior is the largest producer of Succinonitrile, and Stanyl® SN–PURE compound forms a protective layer at the cathode to suppress electrolyte decomposition, protect against oxidation and prevent dendrite formation.

The compound offers:

- High purity of 99.95% and low ion concentration to optimize battery performance
- Superior thermal stability over long operation times
- <2000 parts per million (ppm) water content to lower the risk of oxidization
- Freezing point of 57.2°C and high boiling point of 266°C to withstand extreme temperatures
- In the battery application it acts as non–hazardous chemistry to prevent harmful gases from forming
- Compliance with key regulations for battery system manufacturing
- Global availability at mass scale to mitigate any supply chain risks

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
<b>REGISTRATION</b>	<b>VALUE</b>		
CAS Registry Number	110–61–2		
EC Number	209–783–6		
Synonyms	Butanedinitrile, Deprelin, Dicyanoethane, Ethylenecyanide		
<b>HANDLING</b>	<b>VALUE</b>		
Packaging	Under discussion		
Handling	See SDS		

# Stanyl<sup>®</sup> SN–PURE (Succinonitrile)

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
OTHER PROPERTIES	VALUE		
Melting Point	57.2	°C	
Flash Point	132	°C	
Boiling Point	266	°C	
Molar Weight	80.1	g/mol	