

Stanyl® SN–PURE (Succinonitrile)

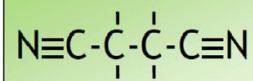
Formula: C₄H₄N₂

Used as electrolyte additive in battery systems

Print Date: 2024–10–22

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
REGISTRATION	VALUE		
CAS Registry Number	110–61–2		
EC Number	209–783–6		
Synonyms	Butanedinitrile, Deprelin, Dicyanoethane, Ethylencyanide		
HANDLING	VALUE		
Packaging	Under discussion		
Handling	See SDS		

Seller represents and warrants exclusively that on the date of delivery by Seller the product shall be in conformity with the specifications agreed upon. Seller makes no other representations or warranties, whether express or implied.

Seller is not responsible or liable for the design of the products of the Customer and it is the responsibility of the Customer to determine that the Seller's product is safe, complies with application laws and regulations, and is technically or otherwise fit for its intended use. Seller does not endorse or claim suitability of its products for a specific application and disclaims each and every representation or warranty, whether express or implied, in that respect.

Typical values are indicative only and are not to be construed as being binding specifications. Colorants in the product or other additives may cause significant variations in typical values.

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