

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

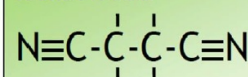
## Formula: C<sub>4</sub>H<sub>4</sub>N<sub>2</sub>

Used as electrolyte additive in lithium batteries

Print Date: 2024–03–27

Stanyl<sup>®</sup> SN–PURE is high–purity Succinonitrile, an electrolyte additive in lithium–ion batteries that improves overall battery safety and extends service life via the reduction of harmful gas generation. Battery life performance is extended because Stanyl<sup>®</sup> 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<sup>®</sup> 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

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, Ethylencyanide		
<b>HANDLING</b>	<b>VALUE</b>		
Packaging	Under discussion		
Handling	See SDS		
<b>OTHER PROPERTIES</b>	<b>VALUE</b>		
Melting Point	57.2	°C	
Flash Point	132	°C	

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## Property Data (Provisional)

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

Print Date: 2024–03–27

<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Boiling Point	266	°C	
Molar Weight	80.1	g/mol	

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