

# Certificate of Analysis

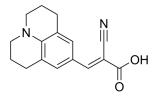
## 9-(2-Carboxy-2-cyanovinyl)julolidine

Cat. No.:	HY-D0054
CAS No.:	142978-18-5
Batch No.:	282425
Chemical Name:	2-Propenoic acid, 2-cyano-3-(2,3,6,7-tetrahydro-1H,5H-benzo[ij]quinolizin-9-yl)-

#### PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula:	$C_{16}H_{16}N_2O_2$		
Molecular Weight:	268.31		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

#### **Chemical Structure:**



#### ANALYTICAL DATA

Appearance:	Orange to red (Solid)
<sup>1</sup> H NMR Spectrum:	Consistent with structure
Purity (NMR):	≥97.0%
Conclusion:	The product has been tested and complies with the given specifications.

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Proteins

### Caution: Product has not been fully validated for medical applications. For research use only.

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