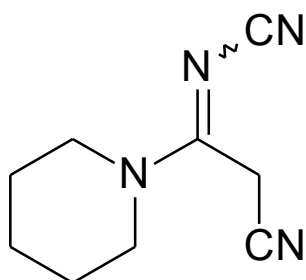


## Certificate of Analysis

**Structure:**



Name	(2-cyano-1-(piperidin-1-yl)ethylidene)cyanamide
Epichem Item #	EPL-AA65 Batch 5
CAS #	56488-00-7
Molecular Formula	C <sub>9</sub> H <sub>12</sub> N <sub>4</sub>
Molecular Weight	176.22 g/mol
Purity	99.4% (weight/weight) 99.9% by HPLC at 254nm (assuming all components detected with the same response factor). 0.4% (weight/weight) isopropanol detected by <sup>1</sup> H NMR analysis. 0.1% water by Karl-Fischer method. 0.01% ash.
Combustion Analysis	Required (%): C:61.3; H:6.9; N:31.8; Found (%): C:61.2; H:7.0; N:31.8.
Appearance	Pale yellow crystals
Melting Point	71.9-74.6°C
Date of Manufacture	17 August 2016
Storage Requirements	Protect from heat, light and moisture
Special Precautions	<b>This compound is for laboratory use only. Its toxicological properties may not have been fully established. It should be handled only by suitably qualified personnel.</b>

John Moursounidis, PhD  
 Head Fine Chemicals and Technical Services  
 19 August 2016