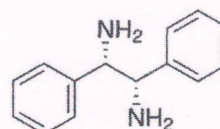


Certificate of Analysis (COA)

Product Name:	(1S,2S)-(-)-1,2-Diphenylethylenediamine
Synonyms:	(1S,2S)-(-)-1,2- DPEN
Batch NO.:	20120810
Total Quantity:	239kg
CAS Number:	29841-69-8
MFG Date:	2012/8/10
Package:	20kg

Structural Formula



Items of test	Standard SR-Chem	Result
Appearance	White to light yellow Crystalline	White to light yellow Crystalline
Chiral Assay	99.0%+	99.59%
Chemical Assay (HPLC)	99.0%+	99.65%
Specific optical Rotation	$[\alpha]_{20/D} -102^{\circ} \pm 1^{\circ}$, c = 1 in ethanol	$[\alpha]_{20/D} -102^{\circ}$, c = 1 in ethanol
Melting point	81-83 °C(lit.)	82-83 °C(lit.)
Loss on drying	0.10%	0.06%

Additional requirements:

A: _____ /
C: _____ /

B: _____
D: _____

Attachment:

HPLC diagram: _____ 2/P. _____

Result of inspection: _____ Conforming article _____

Examiner: _____ Guo zhong xu _____

