

Certificate of Analysis

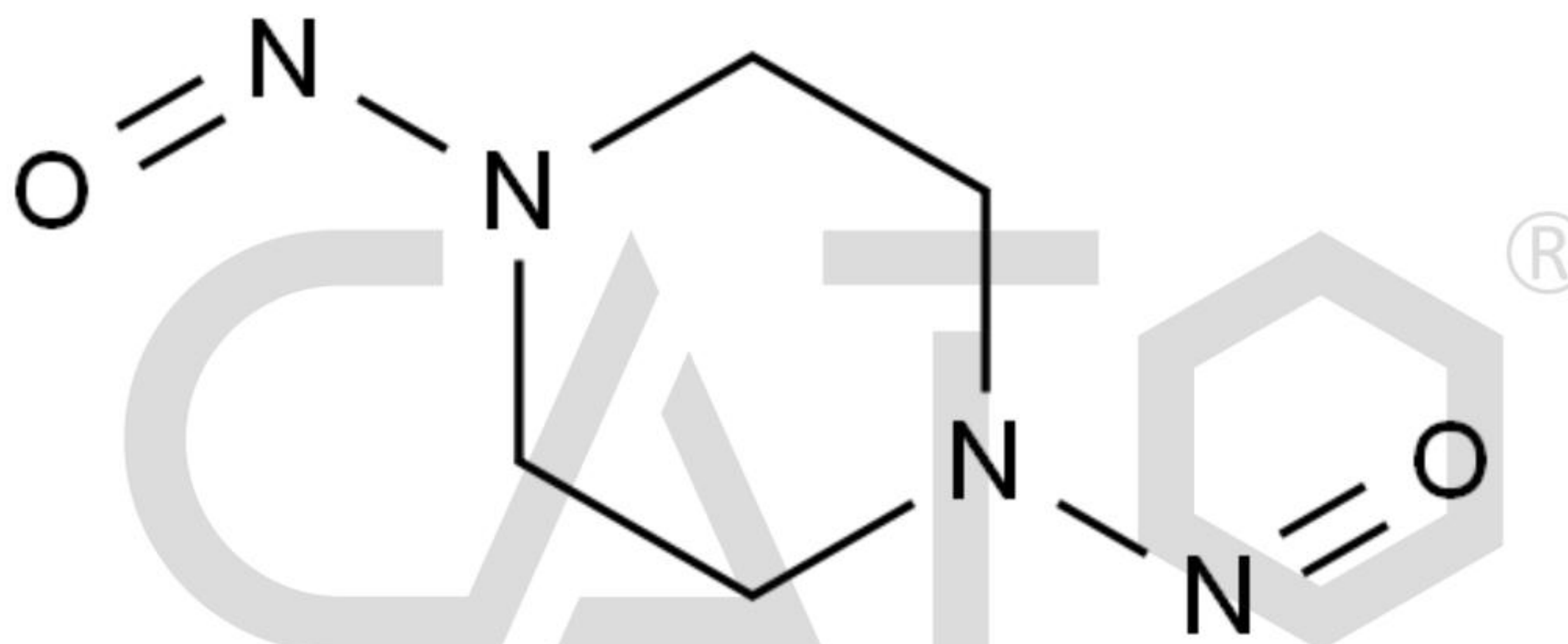
Reference Material & Standard

Product Name:	Piperazine Impurity 24	Catalogue Number:	C4X-242724
Synonyms:	N,N'-Dinitrosopiperazine	Lot Number:	0116-RF-0068
CAS Number:	140-79-4	Expiry Date:	Jan 18, 2031
Molecular Formula:	C ₄ H ₈ N ₄ O ₂	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	144.13	Shipping Condition:	Shipping with Ice Packs

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&IR&UV&CNMR&HNMR	Confirmed
Purity	GC	100.0%
Assay	qNMR	98.3%

Signature:

Prepared by:

Koi

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Feb 11, 2026

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