

## Specification Sheet

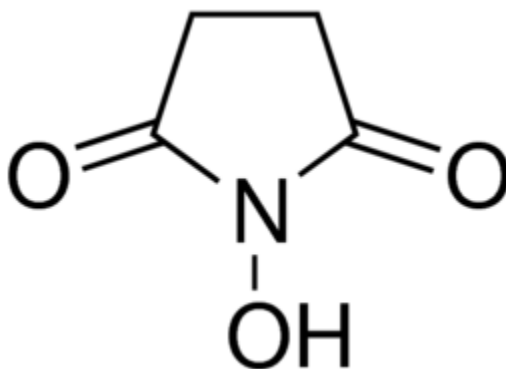
56480 Sigma-Aldrich

# N-Hydroxysuccinimide

purum, ≥97.0% (T)

Synonym: 1-Hydroxy-2,5-pyrrolidinedione, HOSu, NHS

- CAS Number [6066-82-6](#)
- Empirical Formula (Hill Notation) C<sub>4</sub>H<sub>5</sub>NO<sub>3</sub>
- Molecular Weight 115.09
- Beilstein/REAXYS Number 113913
- EC Number [228-001-3](#)
- MDL number [MFCD00005516](#)
- PubChem Substance ID [329758217](#)
- NACRES NA.22



SKU-Pack Size	Availability	Pack Size	Price (SGD)	Quantity
56480-25G	Available to ship on 15.04.2021 - FROM	25 g		<input type="text" value="0"/>
56480-100G	Estimated to ship on 28.04.2021 - FROM	100 g		<input type="text" value="0"/>
56480-1KG	Estimated to ship on 28.04.2021 - FROM	1 kg		<input type="text" value="0"/>

## Properties

Related Categories

[Active Esters/Additives](#), [Chemical Biology](#), [Chemical Synthesis](#), [Coupling](#), [Peptide Coupling](#),



[More...](#)

Quality Level	<a href="#">200</a>
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grade	purum
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assay	≥97.0% (T)
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application(s)	peptide synthesis: suitable
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mp	95-98 °C (lit.)
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	95-98 °C
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storage temp.	room temp
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SMILES string	ON1C(=O)CCC1=O
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InChI	1S/C4H5NO3/c6-3-1-2-4(7)5(3)8/h8H,1-2H2
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InChI key	NQTADLQHYWFPDB-UHFFFAOYSA-N
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[Show Fewer Properties](#)

## Description

### Application

*N*-Hydroxysuccinimide (NHS) can be used in the following applications:

- To synthesize *N*-succinimidyl 3-(2-pyridyldithio)-propionate, a heterobifunctional reagent useful for protein-protein conjugation and also to incorporate aliphatic thiols into proteins.<sup>[1]</sup>
- To synthesize NHS esters of long-chain fatty acids.<sup>[2]</sup>
- NHS can activate the phosphonic acid monolayers immobilized on titanium surface for binding with proteins.<sup>[3]</sup>

### Packaging

1 kg in poly bottle

25, 100 g in poly bottle

### Other Notes

may contain 1-3% succinic acid and/or succinic anhydride

