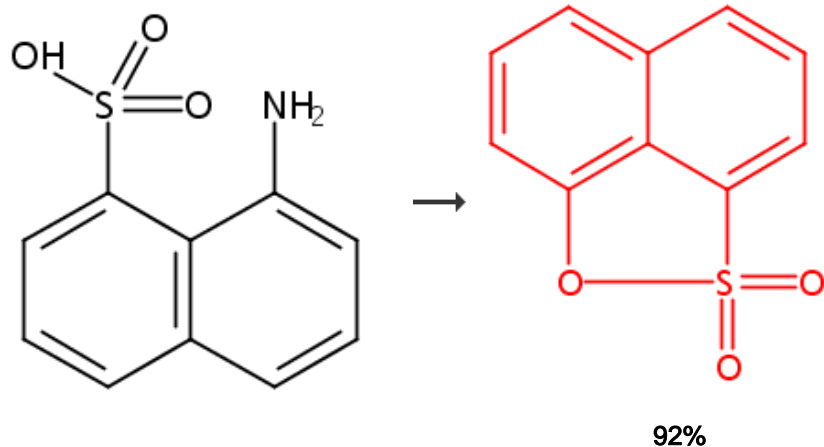


1. Single Step



[Overview](#)

Steps/Stages

1.1 R:HCl, R:NaNO₂

Notes

Reactants: 1, Reagents: 2, Steps: 1, Stages: 1, Most stages in any one step: 1

References

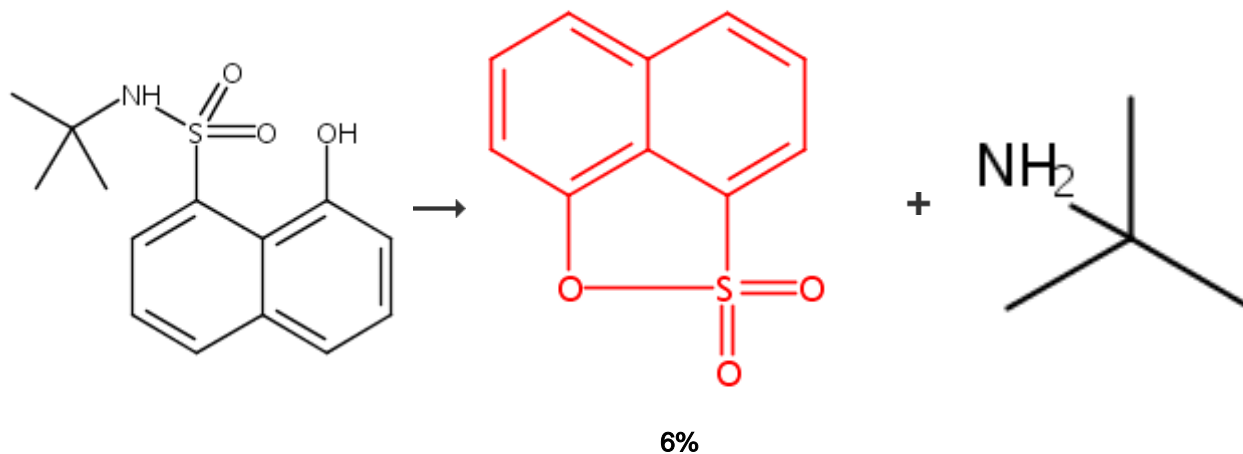
[Approaches to anthracyclines: efficient syntheses of substituted naphthylacetonitriles](#)

By Parker, Kathlyn A. and Iqbal, Tahir

From Journal of Organic Chemistry, 45(6), 1149-51; 1980

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2. Single Step



[Overview](#)

Steps/Stages

Notes

1.1 R:NaOH

combined yield, 15.7%, selectivity (85%),
 Reactants: 1, Reagents: 1, Steps: 1, Stages:
 1, Most stages in any one step: 1

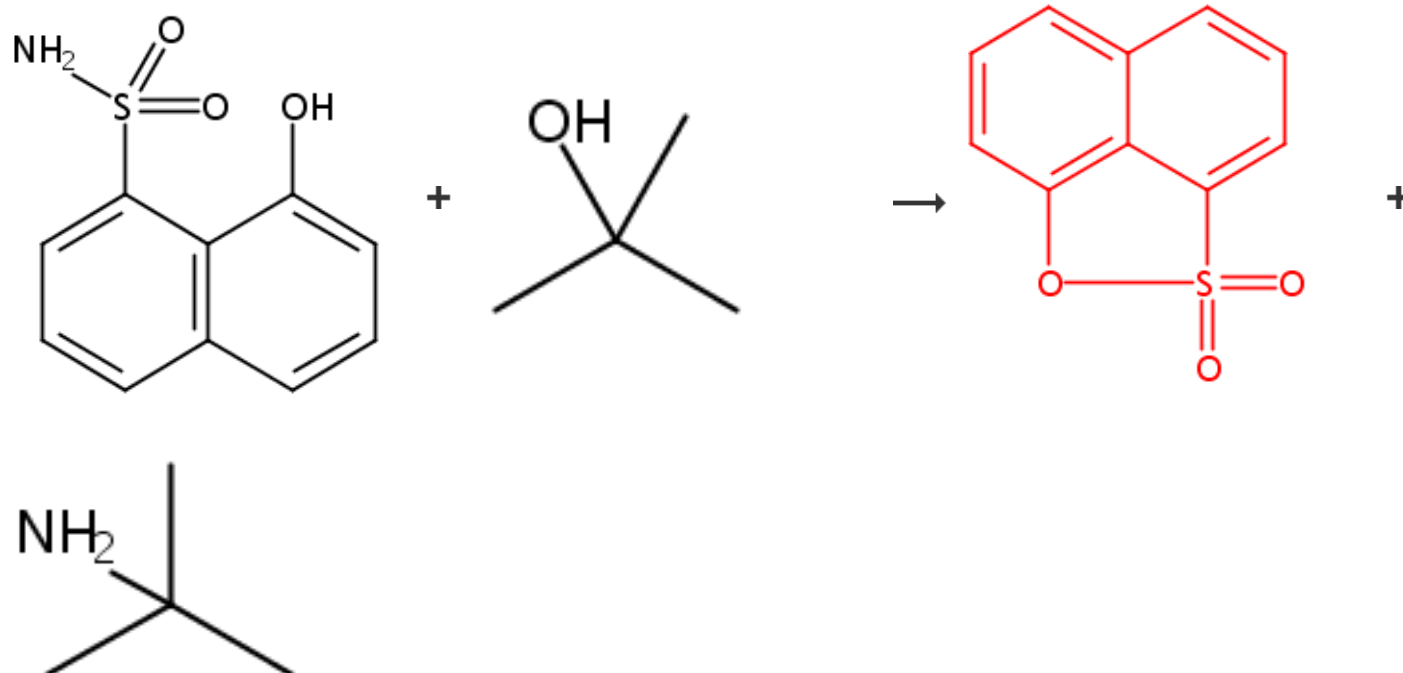
References

Efficient C-N formation for preparing α -
 branched primary amines by recycled
 intramolecular reactions of 1,8-
 naphthosultone using ammonia as nitrogen
 source

By Zhou, Xinrui et al

From Chinese Journal of Chemical
 Engineering, 22(4), 405-410; 2014

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3. 2 Steps**Overview****Steps/Stages**

1.1 C:1227872-65-2, 24 h, 70°C

2.1 R:NaOH

Notes

2) combined yield, 15.7%, selectivity (85%),
 Reactants: 2, Reagents: 1, Catalysts: 1, Steps:
 2, Stages: 2, Most stages in any one step: 1

References

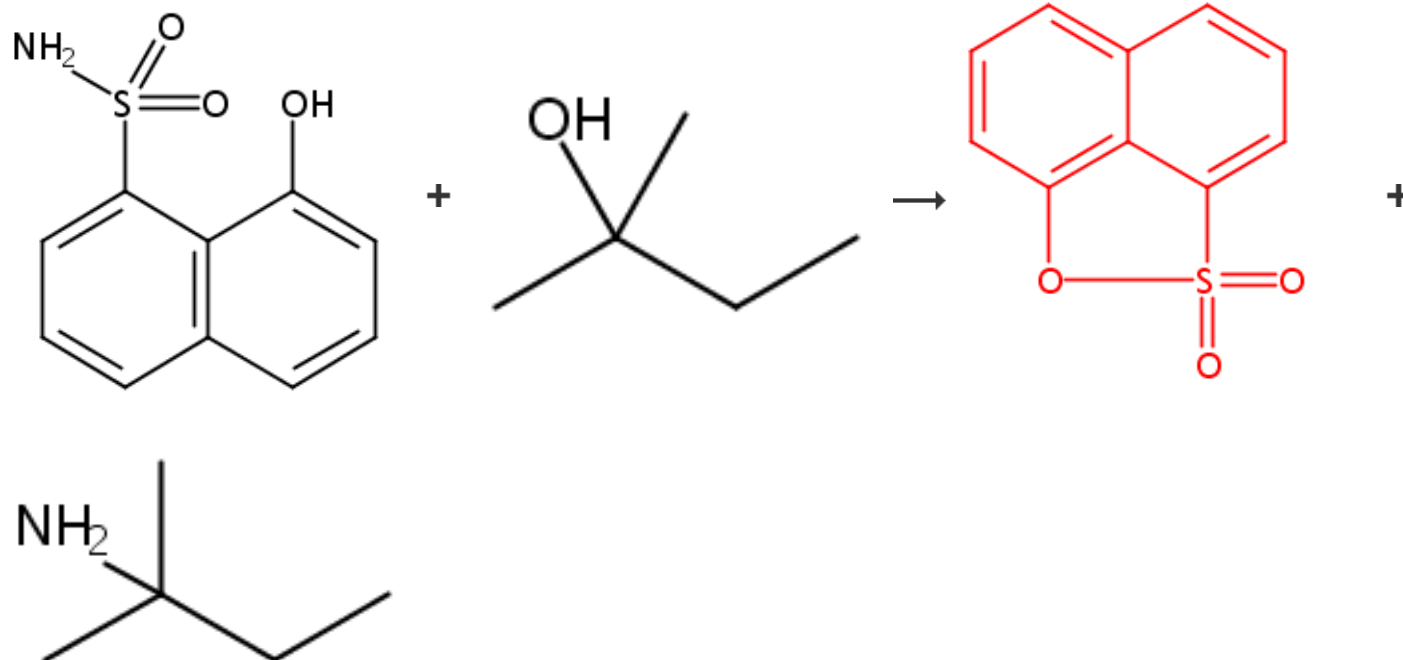
Efficient C-N formation for preparing α -
 branched primary amines by recycled
 intramolecular reactions of 1,8-
 naphthosultone using ammonia as nitrogen
 source

By Zhou, Xinrui et al

From Chinese Journal of Chemical
 Engineering, 22(4), 405-410; 2014

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4. Single Step



Overview

Steps/Stages

- 1.1 C:1227872-65-2, 24 h, 70°C
- 1.2 R:NaOH

Notes

combined yield, 10.3%, Reactants: 2, Reagents: 1, Catalysts: 1, Steps: 1, Stages: 2, Most stages in any one step: 2

References

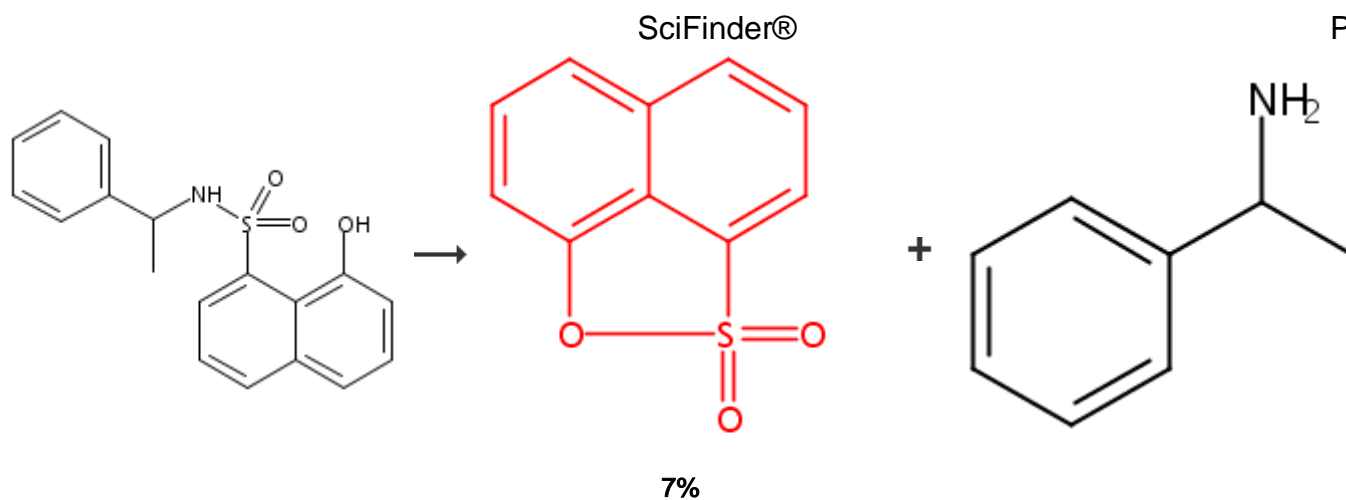
[Efficient C-N formation for preparing \$\alpha\$ -branched primary amines by recycled intramolecular reactions of 1,8-naphthosulfone using ammonia as nitrogen source](#)

By Zhou, Xinrui et al

From Chinese Journal of Chemical Engineering, 22(4), 405-410; 2014

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5. Single Step



Overview

Steps/Stages

1.1 R:NaOH

Notes

combined yield, 20.2%, selectivity (85%),
 Reactants: 1, Reagents: 1, Steps: 1, Stages:
 1, Most stages in any one step: 1

References

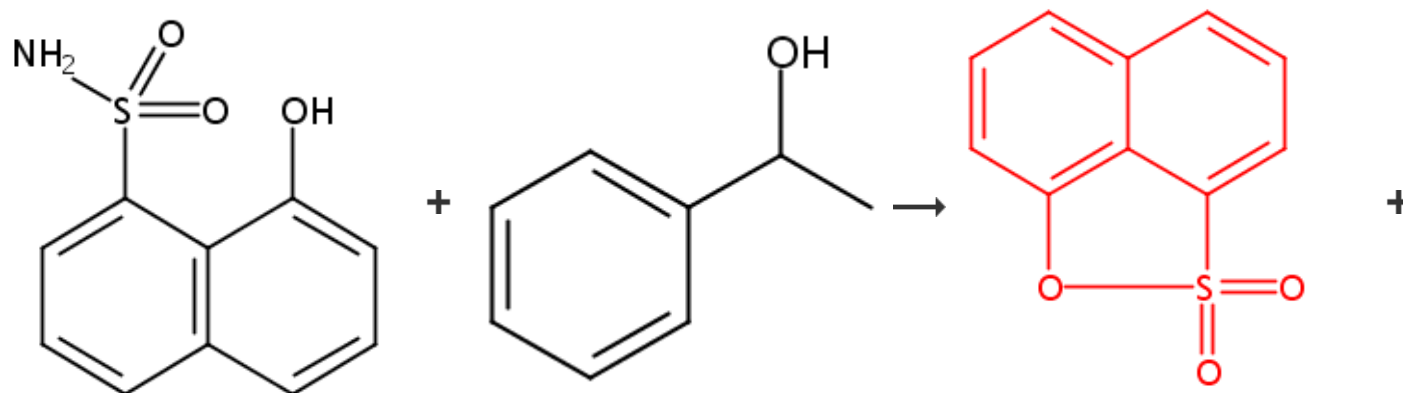
Efficient C-N formation for preparing α -
 branched primary amines by recycled
 intramolecular reactions of 1,8-
 naphthosulfone using ammonia as nitrogen
 source

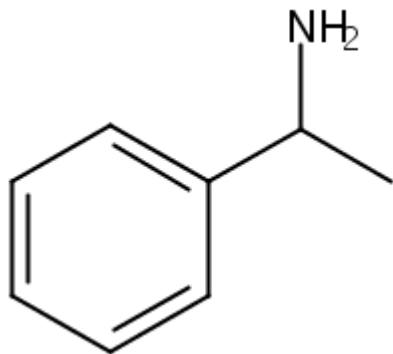
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6. 2 Steps





Overview

Steps/Stages

- 1.1 C:1227872-65-2, 24 h, 70°C
- 2.1 R:NaOH

Notes

2) combined yield, 20.2%, selectivity (85%),
Reactants: 2, Reagents: 1, Catalysts: 1, Steps:
2, Stages: 2, Most stages in any one step: 1

References

[Efficient C-N formation for preparing \$\alpha\$ -branched primary amines by recycled intramolecular reactions of 1,8-naphthosultone using ammonia as nitrogen source](#)

By Zhou, Xinrui et al

From Chinese Journal of Chemical Engineering, 22(4), 405-410; 2014

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