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Domino synthesis of 3-amino-8-hydroxy-1,6-dioxo-2,7-diazaspiro[4.4]non-3-ene-4-carbonitriles

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NC CN NC NH₂

$$R^3$$
 R^2
 R^1
 CN
 $H_2O, OH^ R^3$
 R^1
 NC
 R^3
 R^3
 R^4
 R^1
 R^3
 R^4
 R^4

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