

Support Information

The cost of synthesizing 1 kg ANPZO in ANPZ method

	Material	Amount used/kg	price (dollar/kg)
1	methyl alcohol	10 L	0.57
2	Na	0.8 1kg	16
3	dichloropyrazine	1.3 kg	32
4	fuming sulphuric acid	15 kg	2.4
5	nitrosnitric acid	3 kg	0.8
6	ammonium hydroxide	5 L	1.2
7	acetonitrile	5 L	2.4
8	H ₂ O ₂	3 L	0.8
9	trifluoroacetic acid	23 kg	14.4
10	concentrated sulfuric acid	33 kg	0.8

Total: 475 dollar/kg

The cost of synthesizing 1kg ANPZO in DAPO method

	Material	Amount used/kg	price (dollar/kg)
1	methyl alcohol	10 L	0.57
2	iminodiacetonitrile	1.4 kg	12
3	R-NO	1.7 kg	32
4	fuming sulphuric acid	3 L	2.4
5	nitrosnitric acid	1 L	0.8
6	triethylamine	3 L	2.4
7	hydroxylamine hydrochloride	1.2 kg	2.4

Total: 81.5 dollar/kg