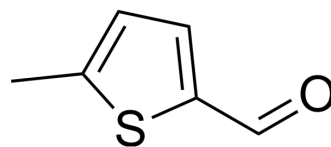


## 5-Methyl-2-thiophenecarboxaldehyde

<b>Cat. No.:</b>	HY-34465	
<b>CAS No.:</b>	13679-70-4	
<b>Molecular Formula:</b>	C <sub>6</sub> H <sub>6</sub> OS	
<b>Molecular Weight:</b>	126.18	
<b>Target:</b>	Biochemical Assay Reagents	
<b>Pathway:</b>	Others	
<b>Storage:</b>	Pure form	-20°C 3 years 4°C 2 years
	In solvent	-80°C 6 months -20°C 1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 50 mg/mL (396.26 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	7.9252 mL	39.6259 mL	79.2519 mL
	5 mM	1.5850 mL	7.9252 mL	15.8504 mL
	10 mM	0.7925 mL	3.9626 mL	7.9252 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (19.81 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (19.81 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

5-Methyl-2-thiophenecarboxaldehyde acts as a candidate to microscopic third order non-linear optical (NLO) material<sup>[1]</sup>.

### REFERENCES

- [1]. DavutAvci, et al. 5-Methyl-2-thiophenecarboxaldehyde: Experimental and TD/DFT study. Journal of Molecular Structure. 2018 Dec 15; 1174: 52-59.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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