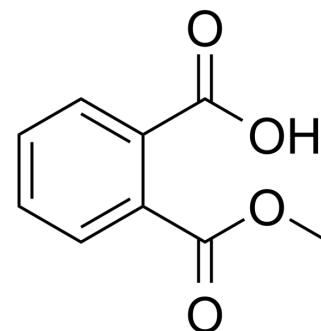


## Monomethyl phthalate

<b>Cat. No.:</b>	HY-Y1097		
<b>CAS No.:</b>	4376-18-5		
<b>Molecular Formula:</b>	C <sub>9</sub> H <sub>8</sub> O <sub>4</sub>		
<b>Molecular Weight:</b>	180.16		
<b>Target:</b>	Endogenous Metabolite		
<b>Pathway:</b>	Metabolic Enzyme/Protease		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : ≥ 100 mg/mL (555.06 mM)

\* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1 mg	5 mg	10 mg
	1 mM		5.5506 mL	27.7531 mL	55.5062 mL
	5 mM		1.1101 mL	5.5506 mL	11.1012 mL
	10 mM		0.5551 mL	2.7753 mL	5.5506 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 (13.88 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (13.88 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (13.88 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Monomethyl phthalate is a phthalate metabolite. Monomethyl phthalate acts as a urinary biomarker of phthalates exposure and can be used as a standard for the determination of thyroid cancer and benign nodule<sup>[1]</sup>.

### REFERENCES

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

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