

# Malathion



**CAS Number:** 121-75-5

**Manufacturing site:** pK Chemicals A/S, Københavnsvej 140, 4600 Køge

**Malathion**, an organophosphate, is both pediculicidal (kills live lice) and partially ovicidal (kills lice eggs).

## Specification (Ph.Eur.)

Test/Characteristic	Limit	Test Method
<b>Appearance</b>	Colourless to pale yellow liquid	Visual (Ph.Eur.)
<b>Identification</b>	As Malathion CRS	IR (2.2.24)
<b>Relative Density</b>	1.220 to 1.240	Relative Density (2.2.5)
<b>Optical Rotation</b>	- 0.1 to + 0.1 °	Polarimetry (2.2.7)
<b>Water</b>	NMT 0.1 w/w %	Karl Fischer (2.5.12)
<b>Assay</b>	98.0 - 102.0 %	HPLC (2.2.29)
<b>Impurity A (Isomalathion)</b>	NMT 0.3 w/w %	HPLC (2.2.29)
<b>Impurity B (Maloxon)</b>	NMT 0.1 w/w %	HPLC (2.2.29)
<b>Impurity C</b>	NMT 0.25 %	HPLC (2.2.29)
<b>Any single unspecified impurity</b>	NMT 0.1 %	HPLC (2.2.29)
<b>Total impurities</b>	NMT 1 %	HPLC (2.2.29)
<b>Ethanol</b>	NMT 5000 ppm	GC (Ph.Eur)
<b>TAMC</b>	NMT 1000 CfU/g	(2.6.12)
<b>TYMC</b>	NMT 100 CfU/g	(2.6.12)

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