

# Arsenotrithious acid, triphenyl ester

<b>Other names:</b>	Thioarsenious acid (H <sub>3</sub> AsS <sub>3</sub> ), triphenyl ester Tris(phenylthio)arsine
<b>Inchi:</b>	InChI=1S/C18H15AsS3/c1-4-10-16(11-5-1)20-19(21-17-12-6-2-7-13-17)22-18-14-8-3-9-1
<b>InchiKey:</b>	GSDQLEGNNAMRJO-UHFFFAOYSA-N
<b>Formula:</b>	C <sub>18</sub> H <sub>15</sub> AsS <sub>3</sub>
<b>SMILES:</b>	c1ccc(S[As](Sc2ccccc2)Sc2ccccc2)cc1
<b>Mol. weight [g/mol]:</b>	402.43
<b>CAS:</b>	1776-70-1

## Physical Properties

Property code	Value	Unit	Source
ie	8.12 ± 0.05	eV	NIST Webbook
log10ws	-4.99		Crippen Method
logp	6.348		Crippen Method

## Sources

<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C1776701&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1776701&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>

## Legend

<b>ie:</b>	Ionization energy
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient

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<https://www.chemeo.com/cid/81-804-9/Arsenotrithious-acid-triphenyl-ester.pdf>

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