

Arsenous acid, trimethyl ester

Other names:	Trimethyl arsenite Arsenious acid (H ₃ AsO ₃), trimethyl ester Trimethoxyarsine As(OCH ₃) ₃
Inchi:	InChI=1S/C3H9AsO3/c1-5-4(6-2)7-3/h1-3H3
InchiKey:	JQWDUIXUOQTLKR-UHFFFAOYSA-N
Formula:	C ₃ H ₉ AsO ₃
SMILES:	CO[As](OC)OC
Mol. weight [g/mol]:	168.02
CAS:	6596-95-8

Physical Properties

Property code	Value	Unit	Source
hvap	42.30 ± 1.30	kJ/mol	NIST Webbook
ie	7.93	eV	NIST Webbook
ie	9.73	eV	NIST Webbook
log10ws	2.41		Crippen Method
logp	-0.090		Crippen Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C6596958&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient

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