

PHOSPHINE SULFIDE, TRIMETHYL-

Inchi:	InChI=1S/C3H9PS/c1-4(2,3)5/h1-3H3
InchiKey:	KTFAZNVGJUIWJM-UHFFFAOYSA-N
Formula:	C3H9PS
SMILES:	CP(C)(C)=S
Mol. weight [g/mol]:	108.15

Physical Properties

Property code	Value	Unit	Source
ie	8.48	eV	NIST Webbook
ie	8.48 ± 0.04	eV	NIST Webbook
logp	1.355		Crippen Method
mcvol	89.940	ml/mol	McGowan Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hsubt	70.30	kJ/mol	380.00	NIST Webbook

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2404559&Units=SI
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

hsubt:	Enthalpy of sublimation at a given temperature
ie:	Ionization energy
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume

Latest version available from:

<https://www.cheméo.com/cid/88-195-9/PHOSPHINE-SULFIDE-TRIMETHYL.pdf>

Generated by Cheméo on 2026-07-22 00:45:52.009957038 +0000 UTC m=+192247.851842438.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.