

Thiometon

Other names:	2-Ethylthioethyl O,O-dimethyl phosphorodithioate BAY 23129 BAYER 23129 Compound M-81 Dithiometasystox Dithiomethon Dithiometon Dithiophosphate de O,O-dimethyle et de S-(2-ethylthio-ethyle) Ekatin Ekatin ULV Ekatin aerosol Ekatine-25 Ethanethiol, 2-(ethylthio)-, S-ester with O,O-dimethyl phosphorodithioate Intrathion Intration Luxistelm M 81 O,O-Dimethyl S-(2-(ethylthio)ethyl) phosphorodithioate O,O-Dimethyl S-(2-Ethylthioethyl) dithiophosphate O,O-Dimethyl-S-(2-aethylthio-aethyl)-dithio phosphat O,O-Dimethyl-S-(2-ethylmercaptoethyl) dithiophosphate O,O-Dimethyl-S-(2-ethylthio-ethyl)-dithiofosfaat O,O-Dimethyl-S-2-ethylmerkaptioethylester kyseliny dithiofosforecne O,O-Dimetil-S-(etiltio-etil)-ditiofosfato Phosphorodithioic acid, O,O-dimethyl S-(2-ethylthio)ethyl ester Phosphorodithioic acid, S-[2-(ethylthio)ethyl] O,O-dimethyl ester S-(2-(Ethylthio)ethyl) O,O-dimethylphosphorodithionate S-(2-(Ethylthio)ethyl)dimethyl phosphorothiolothionate S-[2-(Ethylthio)ethyl] O,O-dimethyl phosphorodithioate SAN 230 Thiameton Veltin
Inchi:	InChI=1S/C6H15O2PS3/c1-4-11-5-6-12-9(10,7-2)8-3/h4-6H2,1-3H3
InchiKey:	OPASCBHCTNRLRM-UHFFFAOYSA-N
Formula:	C6H15O2PS3
SMILES:	CCSCCSP(=S)(OC)OC
Mol. weight [g/mol]:	246.35
CAS:	640-15-3

Physical Properties

Property code	Value	Unit	Source
hvap	76.80	kJ/mol	NIST Webbook
log10ws	-3.09		Estimated Solubility Method
log10ws	-3.09		Aqueous Solubility Prediction Method
logp	2.990		Crippen Method
mcvol	176.650	ml/mol	McGowan Method
rinpol	1695.00		NIST Webbook
rinpol	1680.00		NIST Webbook
rinpol	1725.00		NIST Webbook
rinpol	1655.00		NIST Webbook
rinpol	1716.00		NIST Webbook
rinpol	1695.00		NIST Webbook
rinpol	1716.00		NIST Webbook
rinpol	1680.00		NIST Webbook
rinpol	1655.00		NIST Webbook
rinpol	1716.00		NIST Webbook
rinpol	1689.00		NIST Webbook
rinpol	1724.00		NIST Webbook

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	2.86172e+01
Coeff. B	-9.16613e+03
Coeff. C	-1.21000e+00
Temperature range (K), min.	324.76
Temperature range (K), max.	394.51

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C640153&Units=SI
The Yaws Handbook of Vapor Pressure:	https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Aqueous Solubility Prediction Method:	http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa
Estimated Solubility Method:	http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀w_s:	Log ₁₀ of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
mc_{vol}:	McGowan's characteristic volume
p_{vap}:	Vapor pressure
rin_{pol}:	Non-polar retention indices

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