Thioperoxydicarbonic acid ([(HO)C(S)]2S2), diethyl ester

Other names:

Formic acid, dithiobis[thio-, O,O-diethyl ester
Thioperoxydicarbonic acid ([(HO)C(S)]2S2), diethyl ester
Antigal
Auligen
Aulin
Aulinogen
Bexide
Bis[ethylxanthogen]
Diethyl Dixanthogenate
Diethyl xanthogenate
Diethylxanthogen disulfide
Dithiobis(thioformic acid) O,O-diethyl ester
Dixan
EXD
Galasan
Herbisan
Herbisan 5
K Preparation
Lenisarin
O,O-Diethyl Dithiobis[thioformate]
Scabicidol
Thioperoxydicarbonic acid, diethyl ester
Xantoscabin
Diethyl dithiobis(thiono formate)
Bis(ethylxanthic)disulfide
Diethylxanthic disulfide
DEX
Ethyl xanthogen disulfide
O,O-Diethyl ester of dithiobis(thioformic acid)
Preparation K
Silfasan
Sulfasan
Xanthogen, bis(ethyl-
Bisethylxanthogen disulfide
Di-ethoxythiokarbonyl-disulfid
Diethyl dixanthogen
Ethylxanthic disulfide
Skabilan
Thioperoxydicarbonic acid (((HO)C(S))2S2), OC,OC'-diethyl ester
NSC 402561

Inchi: InChI=1S/C6H10O2S4/c1-3-7-5(9)11-12-6(10)8-4-2/h3-4H2,1-2H3
InchiKey: FVIGODVHAVLZOO-UHFFFAOYSA-N
Formula: C6H10O2S4
SMILES: CCOC(=S)SSC(=S)OCC
Mol. weight [g/mol]: 242.41

Physical Properties

Property code	Value	Unit	Source
hfus	31.14	kJ/mol	Joback Method
ie	8.15	eV	Cheméo Relay (1.0)
logp	3.011		Crippen Method
mcvol	163.940	ml/mol	McGowan Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	348.82	J/mol×K	659.16	Joback Method
cpg	358.50	J/mol×K	701.98	Joback Method
cpg	367.46	J/mol×K	744.81	Joback Method
cpg	375.75	J/mol×K	787.63	Joback Method
cpg	383.44	J/mol×K	830.46	Joback Method
cpg	390.56	J/mol×K	873.28	Joback Method
cpg	397.18	J/mol×K	916.10	Joback Method

Sources

Cheméo Relay (1.0):
Cheméo Relay (1.0, beta):
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C502556&Units=SI
Joback Method: https://en.wikipedia.org/wiki/Joback_method
McGowan Method: http://link.springer.com/article/10.1007/BF02311772
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cpg:	Ideal gas heat capacity
hfus:	Enthalpy of fusion at standard conditions
ie:	Ionization energy
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume