Formic acid, azodi-, dimethyl ester

Other names: Azo, diformic acid, dimethyl ester
Azodicarboxylic acid, dimethyl ester
Inchi: InChI=1S/C4H6N2O4/c1-9-3(7)5-6-4(8)10-2/h1-2H3/b6-5+
InchiKey: NCBFTYFOPLPRBX-AATRIKPKSA-N
Formula: C4H6N2O4
SMILES: COC(=O)N=NC(=O)OC
Mol. weight [g/mol]: 146.10
CAS: 2446-84-6

Physical Properties

Property code	Value	Unit	Source
hf	-568.27	kJ/mol	Joback Method
hvap	49.48	kJ/mol	Joback Method
log10ws	-0.44		Crippen Method
logp	0.971		Crippen Method
mcvol	97.760	ml/mol	McGowan Method
pc	3184.73	kPa	Joback Method
tb	592.70	K	Joback Method
tc	811.31	K	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C2446846&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method: https://en.wikipedia.org/wiki/Joback_method

Legend

hf: Enthalpy of formation at standard conditions

hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature