HC(O)OOH

Other names: HC(O)OOH
Inchi: InChI=1S/CHO3/c2-1-4-3/h1H
InchiKey: SCKXCAADGDQQCS-UHFFFAOYSA-N
Formula: CHO3
SMILES: [O]OC=O
Mol. weight [g/mol]: 61.02

Physical Properties

Property code	Value	Unit	Source
af	0.4406		Cheméo Relay (1.0)
gf	-271.80	kJ/mol	Cheméo Relay (1.0, beta)
hf	-179.27	kJ/mol	Cheméo Relay (1.0)
ie	10.77	eV	Cheméo Relay (1.0)
log10ws	0.54		Cheméo Relay (1.0)
logp	-0.495		Crippen Method
mcvol	36.110	ml/mol	McGowan Method
pc	7485.07	kPa	Cheméo Relay (1.0, beta)
tb	265.15	K	Cheméo Relay (1.0)
tc	458.81	K	Cheméo Relay (1.0)
tf	209.97	K	Cheméo Relay (1.0)
vc	0.157	m3/kmol	Cheméo Relay (1.0)

Sources

Cheméo Relay (1.0, beta):
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C107324&Units=SI
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
Cheméo Relay (1.0):

Legend

af:	Acentric Factor
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
ie:	Ionization energy
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
tf:	Normal melting (fusion) point
vc:	Critical Volume