Dicarbon monoxide

Inchi: InChI=1S/C2O/c1-2-3
InchiKey: VILAVOFMIJHSJA-UHFFFAOYSA-N
Formula: C2O
SMILES: [C]=C=O
Mol. weight [g/mol]: 40.02
CAS: 12071-23-7

Physical Properties

Property code	Value	Unit	Source
ea	2.31 ± 0.01	eV	NIST Webbook
ea	2.31 ± 0.00	eV	NIST Webbook
ea	2.29 ± 0.02	eV	NIST Webbook
ea	1.85 ± 0.03	eV	NIST Webbook
log10ws	-4.03		Crippen Method
logp	-0.316		Crippen Method
mcvol	32.010	ml/mol	McGowan Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C12071237&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
McGowan Method: http://link.springer.com/article/10.1007/BF02311772

Legend

ea: Electron affinity
log10ws: Log10 of Water solubility in mol/l
logp: Octanol/Water partition coefficient
mcvol: McGowan's characteristic volume