

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: 119754-08-4

Physical Properties

Property code	Value	Unit	Source
affp	774.70	kJ/mol	NIST Webbook
basg	747.00	kJ/mol	NIST Webbook
log10ws	-4.03		Crippen Method
logp	-0.316		Crippen Method
mcvol	32.010	ml/mol	McGowan Method

Sources

McGowan Method: <http://link.springer.com/article/10.1007/BF02311772>
NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C119754084&Units=SI>
Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307l>
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Legend

affp: Proton affinity
basg: Gas basicity
log10ws: Log10 of Water solubility in mol/l
logp: Octanol/Water partition coefficient
mcvol: McGowan's characteristic volume

Latest version available from:

<https://www.chemeo.com/cid/71-234-3/Dicarbon-monoxide.pdf>

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