

Monochlorine monoxide

Inchi:	InChI=1S/ClO/c1-2
InchiKey:	NHYCGSASNAIGLD-UHFFFAOYSA-N
Formula:	ClO
SMILES:	[O]Cl
Mol. weight [g/mol]:	51.45
CAS:	14989-30-1

Physical Properties

Property code	Value	Unit	Source
ea	1.62 ± 0.22	eV	NIST Webbook
ea	2.28 ± 0.00	eV	NIST Webbook
ea	2.28 ± 0.01	eV	NIST Webbook
ea	2.35 ± 0.15	eV	NIST Webbook
ea	2.17 ± 0.23	eV	NIST Webbook
ea	1.95 ± 0.25	eV	NIST Webbook
ie	11.01 ± 0.01	eV	NIST Webbook
ie	10.89 ± 0.02	eV	NIST Webbook
ie	10.88 ± 0.02	eV	NIST Webbook
ie	11.08 ± 0.05	eV	NIST Webbook
ie	11.00	eV	NIST Webbook
ie	10.95	eV	NIST Webbook
ie	11.10 ± 0.10	eV	NIST Webbook
log10ws	-4.86		Crippen Method
logp	0.571		Crippen Method
mcvol	26.820	ml/mol	McGowan Method

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C14989301&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

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

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