

Oxygen anion

Inchi: InChI=1S/HO2/c1-2/h1H/p-1
InchiKey: OUUQCZGPVNCOIJ-UHFFFAOYSA-M
Formula: O2-
SMILES: [O][O-]
Mol. weight [g/mol]: 32.00
CAS: 11062-77-4

Physical Properties

Property code	Value	Unit	Source
hf	-43.22 ± 0.59	kJ/mol	NIST Webbook
log10ws	-6.08		Crippen Method
logp	-1.308		Crippen Method
mcvol	18.300	ml/mol	McGowan Method

Sources

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C11062774&Units=SI>
Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci9903071>
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
McGowan Method: <http://link.springer.com/article/10.1007/BF02311772>

Legend

hf: Enthalpy of formation at standard conditions
log10ws: Log10 of Water solubility in mol/l
logp: Octanol/Water partition coefficient
mcvol: McGowan's characteristic volume

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<https://www.chemeo.com/cid/69-586-6/Oxygen-anion.pdf>

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