Phenylphosphonous acid

Benzenephosphinic acid
Benzenephosphonous acid
Hydroxyphenylphosphine oxide
Phenylphosphinic acid
Phosphinic acid, phenyl-
InChI=1S/C6H7O2P/c7-9(8)6-4-2-1-3-5-6/h1-5,9H,(H,7,8)
MLCHBQKMVKNBOV-UHFFFAOYSA-N
C6H7O2P
O=[PH](O)c1ccccc1
142.09
1779-48-2

Physical Properties

Value	Unit	Source
12.80	kJ/mol	Solubilities of Phenylphosphinic Acid, Methylphenylphosphinic Acid, Hexachlorocyclotriphosphazene, and Hexaphenoxycyclotriphosphazene in Selected Solvents
-6.56		Crippen Method
0.779		Crippen Method
103.840	ml/mol	McGowan Method
	Value 12.80 -6.56 0.779 103.840	Value Unit 12.80 kJ/mol -6.56

Sources

Crippen Method:

Solubility of Phenylphosphinic Acid in Supercritical Carbon Dioxide and the Influence of Methanol on the Solubility Behavior:

Solubilities of Phenylphosphinic Acid, Hydroxymethylphenylphosphinic Acid, Solubilities of Phenylphosphinic Acid, Hydroxymethylphenylphosphinic Acid, Matewilosophylphosphinic Acid, Matewilosophylphosphine Acid, Mat http://webbook.nist.gov/cgi/cbook.cgi?ID=C1779482&Units=SI https://www.chemeo.com/doc/models/crippen_log10ws

https://www.doi.org/10.1021/acs.jced.9b00732

Legend

hfus:	Enthalpy of fusion 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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