

P-HYDROXYBENZENESULFONIC ACID

Other names: Benzenesulfonic acid, p-hydroxy-
p-Hydroxybenzenesulfonic acid
p-Phenolsulfonic acid
p-Sulfophenol
Hydroxybenzene-4-sulfonic acid
4-Hydroxybenzenesulfonic acid
4-Phenolsulfonic acid
4-Hydroxyphenylsulfonic acid
p-Hydroxybenzenesulphonic acid
NSC 227908
4-hydroxybenzenesulphonic acid

Inchi: InChI=1S/C6H6O4S/c7-5-1-3-6(4-2-5)11(8,9)10/h1-4,7H,(H,8,9,10)
InchiKey: FEPBITJSIHRMRT-UHFFFAOYSA-N
Formula: C6H6O4S
SMILES: O=S(=O)(O)c1ccc(O)cc1
Mol. weight [g/mol]: 174.18

Physical Properties

Property code	Value	Unit	Source
hf	-585.26	kJ/mol	Cheméo Relay (1.0)
hfus	26.59	kJ/mol	Joback Method
hvap	119.43	kJ/mol	Cheméo Relay (1.0)
ie	9.31	eV	Cheméo Relay (1.0)
log10ws	0.01		Cheméo Relay (1.0)
logp	0.639		Crippen Method
mcvol	111.470	ml/mol	McGowan Method
tb	591.17	K	Cheméo Relay (1.0)
tf	527.96	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	255.58	J/mol×K	583.94	Joback Method
cpg	263.54	J/mol×K	618.67	Joback Method

cpg	270.90	J/mol×K	653.40	Joback Method
cpg	277.70	J/mol×K	688.13	Joback Method
cpg	283.99	J/mol×K	722.86	Joback Method
cpg	289.80	J/mol×K	757.59	Joback Method
cpg	295.19	J/mol×K	792.32	Joback Method

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C98679&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

cpg:	Ideal gas heat capacity
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point

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