

O-AMINOBENZENESULFONIC ACID

Other names:	1-Aminobenzene-2-sulfonic acid 2-Aminobenzenesulfonic acid 2-Aminobenzenesulphonic acid Aniline-2-sulfonic acid Aniline-o-sulphonic acid Anilino-2-sulfonic acid Anilino-o-sulfonic acid Anilino-o-sulphonic acid Benzenesulfonic acid, 2-amino- Benzenesulfonic acid, o-amino- NSC 147 Orthanilic acid o-Aminobenzenesulfonic acid o-Aminophenylsulfonic acid o-Sulfanilic acid
Inchi:	InChI=1S/C6H7NO3S/c7-5-3-1-2-4-6(5)11(8,9)10/h1-4H,7H2,(H,8,9,10)
InchiKey:	ZMCHBSMFKQYNKA-UHFFFAOYSA-N
Formula:	C6H7NO3S
SMILES:	Nc1ccccc1S(=O)(=O)O
Mol. weight [g/mol]:	173.19

Physical Properties

Property code	Value	Unit	Source
chs	-3363.90 ± 0.60	kJ/mol	NIST Webbook
hf	-437.37	kJ/mol	Cheméo Relay (1.0)
hfs	-559.60 ± 1.10	kJ/mol	NIST Webbook
hfus	25.61	kJ/mol	Joback Method
ie	8.60	eV	Cheméo Relay (1.0)
log10ws	-0.74		Cheméo Relay (1.0)
logp	0.516		Crippen Method
mcvol	115.580	ml/mol	McGowan Method
tb	598.58	K	Cheméo Relay (1.0)
tf	475.36	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	261.80	J/mol×K	580.83	Joback Method
cpg	270.63	J/mol×K	615.34	Joback Method
cpg	278.88	J/mol×K	649.86	Joback Method
cpg	286.56	J/mol×K	684.37	Joback Method
cpg	293.68	J/mol×K	718.89	Joback Method
cpg	300.24	J/mol×K	753.40	Joback Method
cpg	306.24	J/mol×K	787.92	Joback Method

Sources

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
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=C88211&Units=SI

Legend

chs:	Standard solid enthalpy of combustion
cpg:	Ideal gas heat capacity
hf:	Enthalpy of formation at standard conditions
hfs:	Solid phase enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion 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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