

Aniline-o-sulfonic acid

Other names:	o-Aminobenzenesulfonic acid
	Orthanilic acid
	Benzenesulfonic acid, 2-amino-
	o-Sulfanilic acid
	Aniline-o-sulphonic acid
	Aniline-2-sulfonic acid
	Benzenesulfonic acid, o-amino-
	1-Aminobenzene-2-sulfonic acid
	2-Aminobenzenesulfonic acid
	o-Aminophenylsulfonic acid
	Anilino-o-sulfonic acid
	Anilino-2-sulfonic acid
	Anilino-o-sulphonic acid
	2-Aminobenzenesulphonic 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
CAS:	88-21-1

Physical Properties

Property code	Value	Unit	Source
chs	-3363.90 ± 0.60	kJ/mol	NIST Webbook
gf	-436.49	kJ/mol	Joback Method
hf	-513.90	kJ/mol	Joback Method
hfs	-559.60 ± 1.10	kJ/mol	NIST Webbook
hfus	25.61	kJ/mol	Joback Method
hvap	77.84	kJ/mol	Joback Method
log10ws	-0.69		Crippen Method
logp	0.516		Crippen Method
mcvol	115.580	ml/mol	McGowan Method
pc	7255.44	kPa	Joback Method
tb	580.83	K	Joback Method
tc	787.92	K	Joback Method
tf	378.96	K	Joback Method

vc	0.438	m3/kmol	Joback Method
----	-------	---------	---------------

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

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
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
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfs:	Solid phase enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature

tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/44-659-2/Aniline-o-sulfonic-acid.pdf>

Generated by Cheméo on 2025-12-24 22:17:04.617267977 +0000 UTC m=+6362822.147308642.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.